WEEKLY BULLETINS OF
MASS. STATE BOARD OF HEALTH
1903

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Weekly Bulletin

OF THE

Mass.: STATE BOARD OF HEALTH

OF

MASSACHUSETTS

FOR THE

Week ending Saturday, Jan. 3, 1903.

An official publication of the State Board of Health of Massachusetts, published weekly at the office of the Board, State House, Boston, Mass.

VOL. XXI. No. 1.

Entered at the post-office at Boston as second-class matter.

This publication contains the returns of deaths made each week to the State Board of Health from cities and towns in Massachusetts having over 10,000 inhabitants in each.

It also contains the reports of cases of infectious diseases returned by the boards of health of cities and towns.

Once in each month the work done under the Food and Drug Acts is also reported in this bulletin.

STATE BOARD OF HEALTH.

HENRY P. WALCOTT, M.D., Cambridge, *Chairman.*
JULIAN A. MEAD, M.D., Watertown.
HIRAM F. MILLS, C.E., Lawrence.
GERARD C. TOBEY, Esq., Wareham.
JAMES W. HULL, Pittsfield.
CHARLES H. PORTER, Quincy.
JOHN W. BARTOL, M.D., Boston.

SAMUEL W. ABBOTT, M.D., *Secretary.*

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MORTALITY OF MASSACHUSETTS

For the Week ending Jan. 3, 1903.

Deaths reported to the State Board of Health in 35 Cities and Greater Towns.

The number of deaths *reported* each week does not exactly correspond with the number which *occurred* during that week, but the discrepancy is a slight one in most cases. The mortality report is published weekly, and contains the returns from such cities and towns having a population of more than 10,000 inhabitants as have sent to the office of the State Board of Health the death returns of the previous week.

We shall esteem it a great favor if all reporting towns will send us their returns weekly, as heretofore, upon postal cards provided for the purpose. A supply of these cards will be sent to any town clerk or health officer who has charge of such returns and is willing to comply with this request.

CITIES AND TOWNS.	*Population. Estimated for 1903.	Reported Deaths in Each.	Deaths under Five Years.	Deaths from: Principal Infectious Diseases.	Acute Lung Diseases.	Phthisis.	Diphtheria and Croup.	Typhoid Fever.	Scarlet Fever.
Boston,	603,163	238	58	49	44	23	4	4	5
Worcester,	132,044	33	11	4	7	..	..	1	..
Fall River,	115,549	48	22	5	7	2	..	..	..
Lowell,	101,959	34	14	5	7	3	2	..	..
Cambridge,	98,639	25	8	3	3	2	..	..	1
Lynn,	72,497	21	3	4	..	3	1	..	..
Lawrence,	69,766	21	10	3	7	1	1	..	..
Springfield,	69,389	28	6	2	3	..	..	1	..
Somerville,	68,110	14	6	1	8	..	1	..	..
New Bedford,	67,198	31	11	5	9	2	1	..	1
Holyoke,	49,286	14	5	1	3	1	..	..	..
Brockton,	44,873	15	2	3	..	3	..	..	..
Haverhill,	42,104	10	3	4	3	3	..	..	..
Newton,	37,794	6	1	..	..	..	..	..	..
Salem,	36,876	..	..	..	..	..	..	..	..
Malden,	36,286	7	..	2	..	2	..	..	..
Chelsea,	35,876	9	3	1	2	1	..	..	..
Fitchburg,	35,069	7	4	1	1	..	1	..	..
Taunton,	33,656	..	..	..	..	..	..	..	..
Everett,	28,620	10	2	2	..	1	1	..	..
North Adams,	27,862	6	1	1	1	..	..	..	..
Gloucester,	26,121	5	2	2	..	..	1	..	..
Quincy,	26,042	4	1	1	..	..	..	1	..
Waltham,	25,198	12	1	2	3	2	..	..	..
Brookline,	22,608	..	..	..	..	..	..	..	..
Pittsfield,	22,589	5	..	..	2	..	..	..	..
Chicopee,	21,031	11	4	3	1	1	1	..	1
Medford,	20,962	6	1	..	1	..	..	..	..
Northampton,	19,883	8	0	1	..	1	..	..	..
Beverly,	15,302	..	..	..	..	..	..	..	..
Clinton,	15,161	8	4	2	..	1	1	..	..
Leominster,	14,806	..	..	..	..	..	..	..	..
Newburyport,	14,478	4	0	..	2	..	..	..	..
Woburn,	14,300	..	..	..	..	..	..	..	..
Hyde Park,	14,175	6	1	3	..	3	..	..	..
Marlborough,	13,609	..	..	..	..	..	..	..	..
Melrose,	13,600	3	..	1	..	1	..	..	..
Westfield,	13,418	4	..	..	..	..	..	..	..
Revere,	12,722	7	2	1	2	..	..	..	..
Framingham,	12,534	6	2	2	2	..	..	..	..
Gardner,	11,928	..	..	..	..	..	..	..	..
Weymouth,	11,344	5	0	..	1	..	..	..	..
Southbridge,	11,268	..	..	..	..	..	..	..	..
Watertown,	11,077	4	..	..	2	..	..	..	..

RECAPITULATION.

	Population.	Deaths.	Deaths under Five.	Infectious Diseases.	Acute Lung Diseases.	Phthisis.	Diphtheria and Croup.	Typhoid Fever.	Scarlet Fever.
Total of reporting towns,	2,016,419	675	188	114	121	56	15	7	8

Note.—*The populations of the Massachusetts cities were estimated upon the rate of growth from 1895 to 1900, since the State had an intermediate census in 1895. The populations of Gloucester, Marlborough and Newburyport were allowed to stand as in 1900, they having suffered a slight decrease during the five-year period.

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Deaths from Prevalent Diseases in 35 Cities and Larger Towns of Massachusetts.

One hundred and fourteen deaths were reported from the principal infectious diseases: measles, 1; scarlet fever, 8; cerebro-spinal meningitis, 4; diphtheria and croup, 15; whooping-cough, 11; typhoid fever, 7; puerperal fever, 1; diarrhœal diseases, 7; small-pox, 4.

No deaths were reported from erysipelas, malarial fever or influenza.

There were 56 deaths from consumption, acute lung diseases, 121, still-births, 38.

From measles: Worcester, 1. From scarlet fever: Boston, 5; Cambridge, 1; New Bedford, 1; Chicopee, 1. From whooping-cough: Boston, 5; Lawrence, Springfield, New Bedford, Haverhill, Gloucester and Framingham, 1 each. From small-pox: Boston, 4.

Deaths under five years of age numbered 188, as compared with 184 for the preceding week.

Deaths from the principal infectious diseases numbered 114, as compared with 111 for the preceding week.

The death rates for the week were: Boston, 20.52; Worcester, 12.99; Fall River, 21.60; Lowell, 17.33; Cambridge, 13.18; Lynn, 15.06; Lawrence, 15.65; Springfield, 20.98; Somerville, 10.69; New Bedford, 23.98; Holyoke, 14.77; Brockton, 17.39; Haverhill, 12.35; Newton, 8.25; Salem, ——; Malden, 10.03; Chelsea, 13.05; Fitchburg, 10.38; Taunton, ——; Gloucester, 9.96; Quincy, 7.99; Waltham, 24.75; Brookline, ——; Pittsfield, 11.51; Chicopee, 27.20; Medford, 14.88; Northampton, 20.90; Beverly, ——; Clinton, 27.44; Leominster, ——; Newburyport, 14.36; Woburn, ——; Hyde Park, 22.01; Adams, ——; Attleborough, ——; Marlborough, ——; Melrose, 11.31; Westfield, 15.52; Milford, ——; Revere, 28.65; Framingham, 24.96; Peabody, ——; Gardner, ——; Weymouth, 22.92; Southbridge, ——; Watertown, 18.74; Peabody, ——.

The total death rate for the week was 17.40, as compared with 15.99 and 18.92 for the previous two weeks.

Cases of Infectious Diseases reported to the State Board of Health during the Week ending Jan. 3, 1903.

(Under the Provisions of section 52 of chapter 75, of the Revised Laws of Massachusetts.)

Scarlet fever,	127	Typhoid fever,	50
Diphtheria and croup,	135	Measles,	236
Small-pox,	56		

(SIGNED) **S. W. ABBOTT, M.D.,**
Secretary of the State Board of Health.

The Meteorological Record for the Week, in Boston, was as follows:

DATE.	BAROM-ETER.	THER-MOMETER.			RELATIVE HUMIDITY.			DIRECTION OF WIND.		VELOCITY OF WIND.			STATE OF WEATHER.*			RAIN-FALL.	
Week ending Saturday, Jan. 3, 1903.	MEAN.	MEAN.	MAXIMUM.	MINIMUM.	8 A.M.	8 P.M.	MEAN.	8 A.M.	8 P.M.	8 A.M.	8 P.M.		8 A.M.	8 P.M.		DURATION.	AMOUNT IN INCHES.
Sunday, Dec. 28, 1902.	30.02	20	26	14	77	85	81	W.	S. W.	11	12		C.	C.			0.00
Monday, . . 29,	30.16	32	42	21	69	100	84	S.	S. W.	6	16		C.	R.			0.04
Tuesday, . . 30,	30.12	36	41	30	86	57	72	W.	W.	9	12		F.	C.			0.06
Wednesday, . 31,	30.25	33	40	26	70	34	52	W.	S. W.	12	12		C.	C.			0.00
Thursday, Jan. 1, 1903	30.16	39	50	28	39	40	40	S. W.	S. W.	12	15		C.	C.			0.00
Friday, . . 2,	30.19	40	46	34	55	60	58	W.	S. E.	10	6		C.	O.			0.00
Saturday, . . 3,	29.52	39	42	36	100	96	98	E.	S. W.	38	12		R.	O.			0.78
Week, . . .	30.06		41	27			69										0.88

* O. = Cloudy; C. = Clear; F. = Fair; G. = Fog; H. = Hazy; S. = Smoky; R. = Rain; T. = Threatening; N. = Snow.

Weekly Bulletin

OF THE

STATE BOARD OF HEALTH

OF

MASSACHUSETTS

FOR THE

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MORTALITY OF MASSACHUSETTS

For the Week ending Jan. 10, 1903.

Deaths reported to the State Board of Health in 35 Cities and Greater Towns.

The number of deaths *reported* each week does not exactly correspond with the number which *occurred* during that week, but the discrepancy is a slight one in most cases. The mortality report is published weekly, and contains the returns from such cities and towns having a population of more than 10,000 inhabitants as have sent to the office of the State Board of Health the death returns of the previous week.

We shall esteem it a great favor if all reporting towns will send us their returns weekly, as heretofore, upon postal cards provided for the purpose. A supply of these cards will be sent to any town clerk or health officer who has charge of such returns and is willing to comply with this request.

CITIES AND TOWNS.	*Population. Estimated for 1903.	Reported Deaths in Each.	Deaths under Five Years.	Deaths from					
				Principal Infectious Diseases.	Acute Lung Diseases.	Phthisis.	Diphtheria and Croup.	Typhoid Fever.	Scarlet Fever.
Boston,	603,163	235	60	51	45	27	4	..	4
Worcester,	132,044	33	16	2	6	..	1	..	..
Fall River,	115,549	55	24	8	8	4	1	..	..
Lowell,	101,959	43	20	2	14	1	..	..	1
Cambridge,	98,639	23	6	7	6	3	1	..	..
Lynn,	72,497	10	4	3	..	..	1	..	..
Lawrence,	69,766	30	12	10	5	4	5	..	1
Springfield,	69,389	23	5	4	1	2	..	1	..
Somerville,	68,110	29	7	6	6	1	..	3	1
New Bedford,	67,198	38	12	7	7	1	..	1	5
Holyoke,	49,286	9	3	..	4	..	..	..	..
Brockton,	44,873	5	1	2	..	1	..	..	..
Haverhill,	42,104	10	1	1	5	..	..	1	..
Newton,	37,794	6	1	..	2	..	..	..	..
Salem,	36,876	..	..	..	..	..	..	..	..
Malden,	36,286	13	5	2	1	1	..	..	..
Chelsea,	35,876	21	5	4	4	3	..	..	..
Fitchburg,	35,069	7	3	..	1	..	..	..	..
Taunton,	33,656	16	4	2	3	..	..	..	1
Everett,	28,620	5	4	..	..	..	..	..	..
North Adams,	27,862	4	1	1	..	..	..	..	..
Gloucester,	26,121	..	..	..	..	..	..	..	..
Quincy,	26,042	10	2	2	..	..	..	..	..
Waltham,	25,198	8	..	..	1	..	..	..	..
Brookline,	22,608	..	..	..	..	..	..	..	..
Pittsfield,	22,589	8	..	..	3	..	..	..	..
Chicopee,	21,031	6	4	3	1	1	..	..	2
Medford,	20,962	5	1	..	..	..	..	..	..
Northampton,	19,883	8	2	1	..	..	1	..	..
Beverly,	15,302	5	..	..	..	..	..	..	..
Clinton,	15,161	4	1	1	1	..	1	..	..
Leominster,	14,806	..	..	..	..	..	..	..	..
Newburyport,	14,478	8	2	1	..	1	..	..	..
Woburn,	14,300	..	..	..	..	..	..	..	..
Hyde Park,	14,175	..	..	..	..	..	..	..	..
Marlborough,	13,609	..	..	..	..	..	..	..	..
Melrose,	13,600	4	..	2	2	2	..	..	..
Westfield,	13,418	5	1	2	1	..	2	..	..
Revere,	12,722	2	1	..	..	..	..	..	..
Framingham,	12,534	3	2	..	..	..	..	..	..
Gardner,	11,928	..	..	..	..	..	..	..	..
Weymouth,	11,344	7	1	3	2	2	..	..	..
Southbridge,	11,268	..	..	..	..	..	..	..	..
Watertown,	11,077	2	..	..	1	..	..	..	..

RECAPITULATION.

	Population.	Deaths.	Deaths under Five.	Infectious Diseases.	Acute Lung Diseases.	Phthisis.	Diphtheria and Croup.	Typhoid Fever.	Scarlet Fever.
Total of reporting towns, ..	2,025,081	700	211	127	130	54	17	6	15

Note.—*The populations of the Massachusetts cities were estimated upon the rate of growth from 1895 to 1900, since the State had an intermediate census in 1895. The populations of Gloucester, Marlborough and Newburyport were allowed to stand as in 1900, they having suffered a slight decrease during the five-year period.

Deaths from Prevalent Diseases in 35 Cities and Larger Towns of Massachusetts.

One hundred and twenty-seven deaths were reported from the principal infectious diseases : measles, 2 ; scarlet fever, 15 ; cerebro-spinal meningitis, 4 ; diphtheria and croup, 17 ; whooping-cough, 10 ; typhoid fever, 6 ; erysipelas, 3 ; diarrhœal diseases, 9 ; small-pox, 4.

No deaths were reported from puerperal fever, malarial fever or influenza.

There were 54 deaths from consumption, acute lung diseases, 130, still-births, 41.

From measles : Boston and Cambridge, 1 each. From scarlet fever : Boston, 4 ; New Bedford, 5 ; Chicopee, 2 ; Lowell, Lawrence, Somerville and Taunton, 1 each. From erysipelas : Boston, Somerville and Taunton, 1 each. From small-pox : Boston, 3 ; Lynn, 1.

Deaths under five years of age numbered 211, as compared with 188 for the preceding week.

Deaths from the principal infectious diseases numbered 127, as compared with 114 for the preceding week.

The death rates for the week were : Boston, 20.26 ; Worcester, 12.99 ; Fall River, 24.75 ; Lowell, 21.93 ; Cambridge, 12.12 ; Lynn, 7.17 ; Lawrence, 22.36 ; Springfield, 17.23 ; Somerville, 22.13 ; New Bedford, 29.50 ; Holyoke, 9.49 ; Brockton, 5.79 ; Haverhill, 12.35 ; Newton, 8.25 ; Salem, —— ; Malden, 18.63 ; Chelsea, 30.45 ; Fitchburg, 10.38 ; Taunton, 24.72 ; Gloucester, —— ; Quincy, 19.97 ; Waltham, 16.50 ; Brookline, —— ; Pittsfield, 18.42 ; Chicopee, 14.84 ; Medford, 12.80 ; Northampton, 20.90 ; Beverly, 16.99 ; Clinton, 13.72 ; Leominster, —— ; Newburyport, 28.73 ; Woburn, —— ; Hyde Park, —— ; Adams, —— ; Attleborough, —— ; Marlborough, —— ; Melrose, 15.08 ; Westfield, 19.40 ; Milford, —— ; Revere, 8.19 ; Framingham, 12.48 ; Peabody, —— ; Gardner, —— ; Weymouth, 32.09 ; Southbridge, —— ; Watertown, 9.37 ; Peabody,——.

The total death rate for the week was 17.96, as compared with 17.40 and 15.99 for the previous two weeks.

Cases of Infectious Diseases reported to the State Board of Health during the Week ending Jan. 10, 1903.

(Under the Provisions of section 52 of chapter 75, of the Revised Laws of Massachusetts.)

Scarlet fever, ...	153	Typhoid fever, ...	53
Diphtheria and croup, ...	127	Measles, ...	267
Small-pox, ...	22		

(SIGNED) S. W. ABBOTT, M.D.,
Secretary of the State Board of Health.

The Meteorological Record for the Week, in Boston, was as follows:

DATE.	BAROM-ETER.	THER-MOMETER.			RELATIVE HUMIDITY.			DIRECTION OF WIND.		VELOCITY OF WIND.			STATE OF WEATHER.*			RAIN-FALL.	
Week ending Saturday, Jan. 10, 1903.	MEAN.	MEAN.	MAXIMUM.	MINIMUM.	8 A.M.	8 P.M.	MEAN.	8 A.M.	8 P.M.	8 A.M.	8 P.M.		8 A.M.	8 P.M.		DURATION.	AMOUNT IN INCHES.
Sunday, . . 4,	29.60	38	42	35	66	63	64	W.	N. W.	9	8		C.	O.			0.00
Monday, . . 5,	29.78	36	40	33	58	58	58	W.	S. W.	9	7		C.	O.			0.00
Tuesday, . . 6,	29.54	32	38	27	88	100	94	S.	N. W.	8	11		R.	N.			0.38
Wednesday, . 7,	29.46	27	36	18	71	98	84	W.	S. E.	11	8		O.	N.			0.02
Thursday, . . 8,	29.26	28	38	19	82	46	64	W.	N. W.	6	14		C.	O.			0.01
Friday, . . 9,	29.60	14	19	10	62	53	58	N. W.	S. W.	7	15		C.	O.			0.00
Saturday, . . 10,	30.01	20	27	14	53	51	52	W.	S. W.	12	12		C.	C.			0.00
Week, . . .	29.61		34	22			68										0.41

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INSPECTION OF FOOD AND DRUGS.

The following summary presents the results of the examinations of Food and Drugs by the State Board of Health in the month of December, 1902: —

ARTICLES EXAMINED.	Number found to be of good quality.	Number adulterated or varying from the legal standard.	TOTAL.	ARTICLES EXAMINED.	Number found to be of good quality.	Number adulterated or varying from the legal standard.	TOTAL.
Milk, . . .	312	158	470	Maple Syrup, .	4	1	5
Butter, . . .	19	7	26	Canned Goods, .	..	..	..
Cheese, . . .	3	..	3	Honey, . . .	2	..	
Lard, . . .	6	5	11	Tea, . . .	..	..	..
Olive Oil, . . .	..	..	..	Coffee, . . .	7	..	
Vinegar, . . .	6	3	9	Cocoa and Chocolate,	7	4	11
Spices, . . .	122	17	139	Confectionery, .	..	..	..
Cream of Tartar, .	39	1	40	Condensed Milk, .	..	1	1
Molasses, . . .	6	..	6	Miscellaneous, .	5	12	17
Syrups, . . .	..	..	..	Drugs, . . .	36	33	69
Maple Sugar, . .	..	..	..				
				Totals, . .	574	242	816

Percentage of adulteration, 29.5. The actual ratio of adulteration is very much less than this, since it is only suspicious articles of food to which the attention of the Board is directed. Certain staple products, such as sugar, flour, and the various other cereal products, are very rarely adulterated, and require but little inspection. The work of the Board is therefore mainly devoted to the inspection of such articles as it has found, by several years of experience, to be especially liable to adulteration.

The ratio of samples of milk found to be below the standard was 33.6 per cent., while the percentage of articles of food was 18.4 per cent.

Eighteen complaints were entered in the courts during the month for violation of the laws relative to the inspection of food and drugs.

The samples of drugs found to be adulterated were Cera Alba, Cera Flava, Glycerinum, Oleum Limonis, Oleum Oliviæ, Sulphur Lotum, Sulphur Præcipitatum, and Tinctura Iodi.

Cities and towns from which samples of food were collected were Boston, Worcester, Cambridge, Somerville, Holyoke, Brockton, Newton, Waltham, Weymouth, Watertown, Medford, Chelsea, Lowell, Malden, Haverhill, Lexington, Fall River, North Adams, Lawrence, Springfield, Gloucester, Marlborough, Braintree, Stow, So. Acton, Hyde Park, Concord, Webster, Milford, Newburyport, New Bedford, Taunton and Fitchburg.

RECORD OF PROSECUTIONS IN DECEMBER, 1902.

No.	Date of Trial.	Name of Defendant.	Place.	Character of Articles Sold.	Result of Trial.
1	December 4,	Austin J. Tanner,	North Adams,	Skimmed Milk,	Plea, Guilty; placed on file.
2	December 4,	Chas. H. Darling,	North Adams,	Coffee,	Conviction.
3	December 4,	Chas. Jayne,	North Adams,	Cassia,	Conviction.
4	December 4,	Chas. Jayne,	North Adams,	Ginger,	Conviction.
5	December 4,	Harry Abraham,	North Adams,	Molasses,	Conviction.
6	December 4,	Harry Abraham,	North Adams,	Mustard,	Conviction.
7	December 4,	Patrick J. Ryan,	North Adams,	Molasses,	Conviction.
8	December 4,	Patrick J. Ryan,	North Adams,	Pepper,	Conviction.
9	December 4,	William C. Jarvais,	North Adams,	Oleo sold as Butter,	Plea, Guilty; fined $100.
10	December 4,	William C. Jarvais,	North Adams,	Oleo, not marked,	Placed on file.
11	December 4,	Morris and Jennie Kronick,	North Adams,	Pepper,	Conviction.
12	December 4,	Andrew Cavazza and Angelo Montagna,	North Adams,	Coffee,	Conviction.
13	December 4,	Louis Straus, Sr., and Louis Straus, Jr.	North Adams,	Soaked Peas, not marked.	Conviction.
14	December 24,	Michael Wall,	Bolton,	Milk, Total Solid, 9.60.	Conviction.
15	December 30,	Joseph L. Quinn,	Medford,	Lard,	Plea, Guilty.
16	December 30,	Frank D. Fisk,	Malden,	Lard,	Plea, Guilty.
17	December 30,	Thomas Boyce,	Malden,	Lard,	Plea, Guilty.
18	December 30,	John O. Connell,	Malden,	Lard,	Plea, Guilty.

Total amount of fines, $235.00.

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MASSACHUSETTS

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JOHN W. BARTOL, M.D., Boston.

SAMUEL W. ABBOTT, M.D., *Secretary.*

MORTALITY OF MASSACHUSETTS

For the Week ending Jan. 17, 1903.

Deaths reported to the State Board of Health in 40 Cities and Greater Towns.

The number of deaths *reported* each week does not exactly correspond with the number which *occurred* during that week, but the discrepancy is a slight one in most cases. The mortality report is published weekly, and contains the returns from such cities and towns having a population of more than 10,000 inhabitants as have sent to the office of the State Board of Health the death returns of the previous week.

We shall esteem it a great favor if all reporting towns will send us their returns weekly, as heretofore, upon postal cards provided for the purpose. A supply of these cards will be sent to any town clerk or health officer who has charge of such returns and is willing to comply with this request.

CITIES AND TOWNS.	*Population. Estimated for 1903.	Reported Deaths in Each.	Deaths under Five Years.	Deaths from					
				Principal Infectious Diseases.	Acute Lung Diseases.	Phthisis.	Diphtheria and Croup.	Typhoid Fever.	Scarlet Fever.
Boston,	603,163	202	80	41	38	21	4	3	1
Worcester,	132,044	48	14	6	5	2	..	..	1
Fall River,	115,549	52	22	7	11	3	1	1	1
Lowell,	101,959	49	14	4	16	2	2	..	..
Cambridge,	98,639	25	8	8	8	3	..	1	1
Lynn,	72,497	33	8	6	..	4	..	1	..
Lawrence,	69,766	32	19	13	8	1	..	3	..
Springfield,	69,389	11	3	1	3	1	..	..	..
Somerville,	68,110	16	1	6	..	3	1	..	2
New Bedford,	67,198	20	8	2	5	1	1	..	..
Holyoke,	49,286	16	7	4	..	4	..	..	..
Brockton,	44,873	12	1	2	..	1	..	1	..
Haverhill,	42,104	14	4	2	3	1	..	..	..
Newton,	37,794	9	2	..	1	..	..	..	..
Salem,	36,876	13	6	1	1	1	..	..	..
Malden,	36,286	9	1	2	..	2	..	..	..
Chelsea,	35,876	13	4	..	3	..	..	..	..
Fitchburg,	35,069	9	3	2	2	1	..	..	..
Taunton,	33,656	..	..	..	..	..	..	..	..
Everett,	28,620	4	..	1	..	1	..	..	..
North Adams,	27,862	6	1	..	1	..	..	..	..
Gloucester,	26,121	10	4	1	..	..	..	..	..
Quincy,	26,042	6	1	1	..	1	..	..	..
Waltham,	25,198	11	..	..	..	..	..	..	..
Brookline,	22,608	2	0	..	..	..	..	..	..
Pittsfield,	22,589	6	2	..	..	..	..	..	..
Chicopee,	21,031	7	4	..	2	..	..	..	..
Medford,	20,962	5	..	1	2	..	..	1	..
Northampton,	19,883	2	0	..	..	..	..	..	..
Beverly,	15,302	6	1	..	1	..	..	..	..
Clinton,	15,161	2	1	..	..	..	..	..	..
Leominster,	14,806	..	..	..	..	..	..	..	..
Newburyport,	14,478	8	0	1	1	1	..	..	..
Woburn,	14,300	4	..	..	..	..	..	..	..
Hyde Park,	14,175	..	..	..	..	..	..	..	..
Marlborough,	13,609	2	0	1	..	1	..	..	..
Melrose,	13,600	7	3	1	..	1	..	..	..
Westfield,	13,418	3	..	..	..	..	..	..	..
Revere,	12,722	4	1	..	1	..	..	..	..
Framingham,	12,534	..	..	..	..	..	..	..	..
Gardner,	11,928	7	3	..	..	..	..	..	..
Weymouth,	11,344	3	..	1	1	..	..	..	..
Southbridge,	11,268	4	..	..	2	..	..	..	..
Watertown,	11,077	4	1	..	2	..	..	..	..

RECAPITULATION.

	Population.	Deaths.	Deaths under Five.	Infectious Diseases.	Acute Lung Diseases.	Phthisis.	Diphtheria and Croup.	Typhoid Fever.	Scarlet Fever.
Total of reporting towns, ..	2,115,601	696	227	115	117	56	9	11	6

Note.—*The populations of the Massachusetts cities were estimated upon the rate of growth from 1895 to 1900, since the State had an intermediate census in 1895. The populations of Gloucester, Marlborough and Newburyport were allowed to stand as in 1900, they having suffered a slight decrease during the five-year period.

Deaths from Prevalent Diseases in 40 Cities and Larger Towns of Massachusetts.

One hundred and fifteen deaths were reported from the principal infectious diseases: measles, 2; scarlet fever, 6; cerebro-spinal meningitis, 5; diphtheria and croup, 9; whooping-cough, 11; typhoid fever, 11; puerperal fever, 1; diarrhœal diseases, 11; small-pox, 3; influenza, 1.

No deaths were reported from erysipelas or malarial fever.

There were 56 deaths from consumption, acute lung diseases, 117, still-births, 49.

From measles: Lawrence and Fitchburg, 1 each. From scarlet fever: Boston, Worcester, Fall River and Cambridge, 1 each; Somerville, 2. From whooping-cough: Boston, 5; Cambridge, 2; Worcester, Lynn, Lawrence and Brockton, 1 each. From small-pox: Boston, 3. From influenza: Woburn, 1.

Deaths under five years of age numbered 227, as compared with 211 for the preceding week.

Deaths from the principal infectious diseases numbered 115, as compared with 127 for the preceding week.

The death rates for the week were: Boston, 17.41; Worcester, 18.90; Fall River, 23.40; Lowell, 24.99; Cambridge, 13.18; Lynn, 23.68; Lawrence, 23.85; Springfield, 8.24; Somerville, 12.11; New Bedford, 15.48; Holyoke, 16.88; Brockton, 13.90; Haverhill, 17.29; Newton, 12.37; Salem, 18.33; Malden, 12.90; Chelsea, 18.85; Fitchburg, 13.35; Taunton, ——; Gloucester, 19.92; Quincy, 11.98; Waltham, 22.69; Brookline, 4.60; Pittsfield, 13.81; Chicopee, 17.31; Medford, 12.40; Northampton, 5.22; Beverly, 20.39; Clinton, 6.86; Leominster, ——; Newburyport, 28.73; Woburn, 14.54; Hyde Park, ——; Adams, ——; Attleborough, ——; Marlborough, 7.54; Melrose, 26.39; Westfield, 11.64; Milford, ——; Revere, 16.37; Framingham, ——; Peabody, ——; Gardner, 30.58; Weymouth, 13.75; Southbridge, 18.45; Watertown, 18.74; Peabody, ——.

The total death rate for the week was 17.10, as compared with 17.96 and 17.40 for the previous two weeks.

Cases of Infectious Diseases reported to the State Board of Health during the Week ending Jan. 17, 1903.

(Under the Provisions of section 52 of chapter 75, of the Revised Laws of Massachusetts.)

Scarlet fever,	135	Typhoid fever,	52
Diphtheria and croup,	114	Measles,	256
Small-pox,	24		

(SIGNED) **S. W. ABBOTT, M.D.,**
Secretary of the State Board of Health.

The Meteorological Record for the Week, in Boston, was as follows:

DATE.	BAROM-ETER.	THER-MOMETER.			RELATIVE HUMIDITY.			DIRECTION OF WIND.		VELOCITY OF WIND.			STATE OF WEATHER.*			RAIN-FALL.	
Week ending Saturday, Jan. 17, 1903.	MEAN.	MEAN.	MAXIMUM.	MINIMUM.	8 A.M.	8 P.M.	MEAN.	8 A.M.	8 P.M.	8 A.M.	8 P.M.		8 A.M.	8 P.M.		DURATION.	AMOUNT IN INCHES.
Sunday, 11,	29.78	26	38	15	66	100	83	S. W.	S. E.	5	5		C.	R.			0.34
Monday, 12,	29.64	28	40	15	54	55	54	W.	W.	30	21		C.	C.			0.22
Tuesday, 13,	30.07	19	26	12	61	55	58	W.	W.	17	18		C.	C.			0.00
Wednesday, 14,	30.19	20	26	15	71	59	65	W.	S. W.	14	12		C.	O.			0.00
Thursday, 15,	29.79	29	35	23	82	58	70	S. W.	W.	16	21		O.	O.			0.00
Friday, 16,	29.90	36	39	34	71	58	64	S. W.	S. W.	16	10		C.	F.			0.00
Saturday, 17,	29.56	41	47	35	69	65	67	S. W.	W.	16	12		O.	C.			0.00
Week,	29.85		36	21			66										0.56

* O. = Cloudy; C. = Clear; F. = Fair; G. = Fog; H. = Hazy; S. = Smoky; R. = Rain; T. = Threatening; N. = Snow.

Weekly Bulletin

OF THE

STATE BOARD OF HEALTH

OF

MASSACHUSETTS

FOR THE

Week ending Saturday, Jan. 24, 1903.

An official publication of the State Board of Health of Massachusetts, published weekly at the office of the Board, State House, Boston, Mass.

VOL. XXI. No. 4.

Entered at the post-office at Boston as second-class matter.

This publication contains the returns of deaths made each week to the State Board of Health from cities and towns in Massachusetts having over 10,000 inhabitants in each.

It also contains the reports of cases of infectious diseases returned by the boards of health of cities and towns.

Once in each month the work done under the Food and Drug Acts is also reported in this bulletin.

STATE BOARD OF HEALTH.

HENRY P. WALCOTT, M.D., Cambridge, *Chairman.*
JULIAN A. MEAD, M.D., Watertown.
HIRAM F. MILLS, C.E., Lawrence.
GERARD C. TOBEY, Esq., Wareham.
JAMES W. HULL, Pittsfield.
CHARLES H. PORTER, Quincy.
JOHN W. BARTOL, M.D., Boston.

SAMUEL W. ABBOTT, M.D., *Secretary.*

MORTALITY OF MASSACHUSETTS

For the Week ending Jan. 24, 1903.

Deaths reported to the State Board of Health in 39 Cities and Greater Towns.

The number of deaths *reported* each week does not exactly correspond with the number which *occurred* during that week, but the discrepancy is a slight one in most cases. The mortality report is published weekly, and contains the returns from such cities and towns having a population of more than 10,000 inhabitants as have sent to the office of the State Board of Health the death returns of the previous week.

We shall esteem it a great favor if all reporting towns will send us their returns weekly, as heretofore, upon postal cards provided for the purpose. A supply of these cards will be sent to any town clerk or health officer who has charge of such returns and is willing to comply with this request.

CITIES AND TOWNS.	*Population. Estimated for 1903.	Reported Deaths in Each.	Deaths under Five Years.	Deaths from					
				Principal Infectious Diseases.	Acute Lung Diseases.	Phthisis.	Diphtheria and Croup.	Typhoid Fever.	Scarlet Fever.
Boston,	603,163	230	60	45	57	23	3	1	..
Worcester,	132,044	46	9	4	6	2	..	..	..
Fall River,	115,549	47	24	8	7	4	1	..	..
Lowell,	101,959	30	5	5	7	3	1	1	..
Cambridge,	98,639	25	6	6	3	4	..	1	..
Lynn,	72,497	20	5	3	1	2	..	..	..
Lawrence,	69,766	24	12	6	7	2	1	1	..
Springfield,	69,389	36	8	5	8	1	..	1	2
Somerville,	68,110	20	3	1	4	..	..	..	..
New Bedford,	67,198	41	14	8	17	2	1	1	4
Holyoke,	49,286	21	8	4	7	2	..	..	..
Brockton,	44,873	11	1	..	..	..	..	..	..
Haverhill,	42,104	18	4	3	6	2	..	..	..
Newton,	37,794	10	5	..	3	..	..	..	..
Salem,	36,876	20	7	2	2	2	..	..	..
Malden,	36,286	5	1	2	..	1	..	..	1
Chelsea,	35,876	12	..	..	3	..	..	..	..
Fitchburg,	35,069	..	..	..	..	..	..	..	..
Taunton,	33,656	..	..	..	..	..	..	..	..
Everett,	28,620	12	..	3	..	1	..	..	1
North Adams,	27,862	2	1	..	..	..	..	..	..
Gloucester,	26,121	10	1	2	..	1	1	..	..
Quincy,	26,042	3	1	..	..	..	..	..	..
Waltham,	25,198	9	2	3	2	3	..	..	..
Brookline,	22,608	8	1	3	1	2	1	..	..
Pittsfield,	22,589	3	1	1	1	1	..	..	..
Chicopee,	21,031	9	5	1	1	..	1	..	..
Medford,	20,962	3	1	..	3	..	..	..	..
Northampton,	19,883	..	..	..	..	..	..	..	..
Beverly,	15,302	3	..	..	..	..	..	..	..
Clinton,	15,161	6	1	2	..	..	..	1	..
Leominster,	14,806	..	..	..	..	..	..	..	..
Newburyport,	14,478	4	2	..	1	..	..	..	..
Woburn,	14,300	4	1	2	..	2	..	..	..
Hyde Park,	14,175	5	1	1	..	1	..	..	..
Marlborough,	13,609	7	2	1	2	1	..	..	..
Melrose,	13,600	5	..	1	2	1	..	..	..
Westfield,	13,418	2	1	..	..	..	..	..	..
Revere,	12,722	3	..	..	..	..	..	..	..
Framingham,	12,534	4	2	1	1	1	..	..	..
Gardner,	11,928	..	..	..	..	..	..	..	..
Weymouth,	11,344	5	0	..	3	..	..	..	..
Southbridge,	11,268	1	..	..	1	..	..	..	..
Watertown,	11,077	1	..	..	..	..	..	..	..

RECAPITULATION.

	Population.	Deaths.	Deaths under Five.	Infectious Diseases.	Acute Lung Diseases.	Phthisis.	Diphtheria and Croup.	Typhoid Fever.	Scarlet Fever.
Total of reporting towns, ..	2,075,430	719	195	123	156	64	10	7	8

Note.—*The populations of the Massachusetts cities were estimated upon the rate of growth from 1895 to 1900, since the State had an intermediate census in 1895. The populations of Gloucester, Marlborough and Newburyport were allowed to stand as in 1900, they having suffered a slight decrease during the five-year period.

Deaths from Prevalent Diseases in 39 Cities and Larger Towns of Massachusetts.

One hundred and twenty-three deaths were reported from the principal infectious diseases : measles, 2 ; scarlet fever, 8 ; cerebro-spinal meningitis, 3 ; diphtheria and croup, 10 ; whooping-cough, 12 ; typhoid fever, 7 ; puerperal fever, 1 ; diarrhœal diseases, 13 ; small-pox, 3.

No deaths were reported from erysipelas, malarial fever or influenza.

There were 64 deaths from consumption, acute lung diseases, 156, still-births, 52.

From measles : Boston, 1 ; Clinton, 1. From scarlet fever : New Bedford, 4 ; Springfield, 2 ; Malden, 1 ; Everett, 1. From whooping-cough : Boston, 6 ; Cambridge, Lynn, Lawrence, Somerville, Haverhill and Everett, 1 each. From small-pox : Boston, 3.

Deaths under five years of age numbered 195, as compared with 227 for the preceding week.

Deaths from the principal infectious diseases numbered 123, as compared with 115 for the preceding week.

The death rates for the week were : Boston, 21.82 ; Worcester, 15.75 ; Fall River, 21.15 ; Lowell, 15.30 ; Cambridge, 13.18 ; Lynn, 14.34 ; Lawrence, 17.89 ; Springfield, 26.97 ; Somerville, 15.27 ; New Bedford, 31.72 ; Holyoke, 22.15 ; Brockton, 12.75 ; Haverhill, 22.23 ; Newton, 13.75 ; Salem, 28.20 ; Malden, 7.16 ; Chelsea, 17.40 ; Fitchburg, —— ; Taunton, —— ; Everett, 21.81 ; No. Adams, 3.72 ; Gloucester, 19.92 ; Quincy, 5.99 ; Waltham, 18.57 ; Brookline, 18.40 ; Pittsfield, 6.90 ; Chicopee, 22.56 ; Medford , 7.44 ; Northampton, —— ; Beverly, 10.17 ; Clinton, 20.58 ; Leominster, —— ; Newburyport, 14.36 ; Woburn, 14.54 ; Hyde Park, 18.34 ; Adams, —— ; Attleborough, —— ; Marlborough, 26.29 ; Melrose, 18.85 ; Westfield, 7.76 ; Milford, —— ; Revere, 12.28 ; Framingham, 16.64 ; Peabody, —— ; Gardner, —— ; Weymouth, 22.92 ; Southbridge, 4.61 ; Watertown, 4.68 ; Plymouth, ——.

The total death rate for the week was 18.01, as compared with 17.10 and 17.96 for the previous two weeks.

Cases of Infectious Diseases reported to the State Board of Health during the Week ending Jan. 24, 1903.

(Under the Provisions of section 52 of chapter 75, of the Revised Laws of Massachusetts.)

Scarlet fever, ...	140	Typhoid fever, ...	37
Diphtheria and croup, ...	121	Measles, ...	328
Small-pox, ...	18		

(SIGNED) **S. W. ABBOTT, M.D.,**
Secretary of the State Board of Health.

The Meteorological Record for the Week, in Boston, was as follows:

DATE.	BAROM-ETER.	THER-MOMETER.			RELATIVE HUMIDITY.			DIRECTION OF WIND.		VELOCITY OF WIND.		STATE OF WEATHER.*			RAIN-FALL.	
Week ending Saturday, Jan. 24, 1903.	MEAN.	MEAN.	MAXIMUM.	MINIMUM.	8 A.M.	8 P.M.	MEAN.	8 A.M.	8 P.M.	8 A.M.	8 P.M.	8 A.M.	8 P.M.		DURATION.	AMOUNT IN INCHES.
Sunday, . . 18,	29.96	20	36	3	30	68	49	W.	W.	18	18	C.	C.			0.00
Monday, . . 19,	30.54	7	15	1	52	55	54	N. W.	W.	8	8	C.	C.			0.00
Tuesday, . . 20,	30.57	20	33	8	53	76	64	W.	S. E.	3	8	C.	O.			0.00
Wednesday, . 21,	29.67	38	47	30	96	84	90	S. E.	W.	14	17	R.	O.			1.14
Thursday, . . 22,	29.90	36	40	33	76	64	70	W.	W.	7	10	O.	C.			0.00
Friday, . . 23,	30.04	24	38	9	61	60	60	S. W.	N. W.	10	18	O.	C.			0.00
Saturday, . . 24,	30.47	11	17	5	58	65	62	N. W.	N.	12	8	F.	O.			0.00
Week, . . .	30.16		32	13			64									1.14

* O. = Cloudy; C. = Clear; F. = Fair; G. = Fog; H. = Hazy; S. = Smoky; R. = Rain; T. = Threatening; N. = Snow.

Weekly Bulletin

OF THE

STATE BOARD OF HEALTH

OF

MASSACHUSETTS

FOR THE

Week ending Saturday, Jan. 31, 1903.

An official publication of the State Board of Health of Massachusetts, published weekly at the office of the Board, State House, Boston, Mass.

VOL. XXI. No. 5.

Entered at the post-office at Boston as second-class matter.

This publication contains the returns of deaths made each week to the State Board of Health from cities and towns in Massachusetts having over 10,000 inhabitants in each.

It also contains the reports of cases of infectious diseases returned by the boards of health of cities and towns.

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SAMUEL W. ABBOTT, M.D., *Secretary.*

MORTALITY OF MASSACHUSETTS

For the Week ending Jan. 31, 1903.

Deaths reported to the State Board of Health in 37 Cities and Greater Towns.

The number of deaths *reported* each week does not exactly correspond with the number which *occurred* during that week, but the discrepancy is a slight one in most cases. The mortality report is published weekly, and contains the returns from such cities and towns having a population of more than 10,000 inhabitants as have sent to the office of the State Board of Health the death returns of the previous week.

We shall esteem it a great favor if all reporting towns will send us their returns weekly, as heretofore, upon postal cards provided for the purpose. A supply of these cards will be sent to any town clerk or health officer who has charge of such returns and is willing to comply with this request.

CITIES AND TOWNS.	*Population. Estimated for 1903.	Reported Deaths in Each.	Deaths under Five Years.	Deaths from					
				Principal Infectious Diseases.	Acute Lung Diseases.	Phthisis.	Diphtheria and Croup.	Whooping-cough.	Scarlet Fever.
Boston,	603,163	269	72	51	57	24	5	1	3
Worcester,	132,044	49	18	7	8	4	..	..	..
Fall River,	115,549	54	28	13	15	4	2	1	..
Lowell,	101,959	41	10	7	12	5	1	..	..
Cambridge,	98,639	26	10	2	6	1	..	1	..
Lynn,	72,497	27	5	..	..	..	..	..	..
Lawrence,	69,766	34	10	10	6	6	1	1	..
Springfield,	69,389	17	5	3	1	2	..	1	..
Somerville,	68,110	23	4	3	4	2	..	..	1
New Bedford,	67,198	42	19	11	10	2	1	..	6
Holyoke,	49,286	23	7	4	4	3	..	..	..
Brockton,	44,873	9	4	4	..	2	..	1	..
Haverhill,	42,104	16	3	2	5	1	..	..	..
Newton,	37,794	5	1	1	..	1	..	..	..
Salem,	36,876	13	4	..	5	..	..	..	..
Malden,	36,286	12	4	3	1	3	..	..	..
Chelsea,	35,876	20	6	1	2	1	..	..	..
Fitchburg,	35,069	14	8	..	3	..	..	..	..
Taunton,	33,656	21	6	3	3	1	..	1	..
Everett,	28,620	5	2	..	..	..	..	..	..
North Adams,	27,862	7	3	1	..	..	..	1	..
Gloucester,	26,121	..	..	..	..	..	..	..	..
Quincy,	26,042	4	..	..	1	..	..	..	..
Waltham,	25,198	10	3	1	..	..	..	1	..
Brookline,	22,608	6	0	1	2	..	..	..	1
Pittsfield,	22,589	8	..	1	2	1	..	..	..
Chicopee,	21,031	15	9	4	4	2	..	..	2
Medford,	20,962	3	1	..	2	..	..	..	..
Northampton,	19,883	5	0	2	..	2	..	..	..
Beverly,	15,302	3	1	..	..	..	..	..	..
Clinton,	15,161	2	1	..	1	..	..	..	..
Leominster,	14,806	..	..	..	..	..	..	..	..
Newburyport,	14,478	6	1	..	..	..	..	..	..
Woburn,	14,300	3	..	1	..	1	..	..	..
Hyde Park,	14,175	..	..	..	..	..	..	..	..
Marlborough,	13,609	..	..	..	..	..	..	..	..
Melrose,	13,600	..	..	..	..	..	..	..	..
Westfield,	13,418	2	2	..	1	..	..	..	..
Revere,	12,722	2	..	..	2	..	..	..	..
Framingham,	12,534	6	2	1	1	1	..	..	..
Gardner,	11,928	..	..	..	..	..	..	..	..
Weymouth,	11,344	6	1	..	3	..	..	..	..
Southbridge,	11,268	..	..	..	..	..	..	..	..
Watertown,	11,077	1	..	..	1	..	..	..	..

RECAPITULATION.

	Population.	Deaths.	Deaths under Five.	Infectious Diseases.	Acute Lung Diseases.	Phthisis.	Diphtheria and Croup.	Whooping-cough.	Scarlet Fever.
Total of reporting towns, ..	2,085,225	809	250	137	162	69	10	9	13

Note.—*The populations of the Massachusetts cities were estimated upon the rate of growth from 1895 to 1900, since the State had an intermediate census in 1895. The populations of Gloucester, Marlborough and Newburyport were allowed to stand as in 1900, they having suffered a slight decrease during the five-year period.

Deaths from Prevalent Diseases in 37 Cities and Larger Towns of Massachusetts.

One hundred and thirty-seven deaths were reported from the principal infectious diseases : measles, 2 ; scarlet fever, 13 ; cerebro-spinal meningitis, 4 ; diphtheria and croup, 10 ; whooping-cough, 9 ; typhoid fever, 5 ; puerperal fever, 2 ; diarrhœal diseases, 18 ; small-pox, 2.

No deaths were reported from malarial fever or influenza.

There were 69 deaths from consumption, acute lung diseases, 162, still-births, 37.

From measles : Boston, 1 ; Lawrence, 1. From scarlet fever : Boston, 3 ; New Bedford, 6 ; Somerville, 1 ; Brookline, 1 ; Chicopee, 2. From typhoid fever : Boston, Worcester, Lowell, Holyoke and Taunton, 1 each. From small-pox : Boston and Haverhill, 1 each. From erysipelas : Boston, 3.

Deaths under five years of age numbered 250, as compared with 196 for the preceding week.

Deaths from the principal infectious diseases numbered 137, as compared with 123 for the preceding week.

The death rates for the week were : Boston, 23.19 ; Worcester, 19.30 ; Fall River, 24.30 ; Lowell, 20.91 ; Cambridge, 13.70 ; Lynn, 19.36 ; Lawrence, 25.34 ; Springfield, 12.73 ; Somerville, 17.56 ; New Bedford, 32.50 ; Holyoke, 24.26 ; Brockton, 10.43 ; Haverhill, 19.76 ; Newton, 6.87 ; Salem, 18.33 ; Malden, 17.19 ; Chelsea, 29.00 ; Fitchburg, 20.76 ; Taunton, 32.44 ; Everett, 9.09 ; No. Adams, 13.06 ; Gloucester, —— ; Quincy, 7.99 ; Waltham, 20.63 ; Brookline, 13.80 ; Pittsfield, 18.42 ; Chicopee, 37.09 ; Medfor,d 7.44 ; Northampton, 13.07 ; Beverly, 10.20 ; Clinton, 6.86 ; Leominster, —— ; Newburyport, 21.54 ; Woburn, 10.91 ; Hyde Park, —— ; Adams, —— ; Attleborough, —— ; Marlborough, —— ; Melrose, —— ; Westfield, —— ; Milford, —— ; Revere, 8.19 ; Framingham, 24.96 ; Peabody, —— ; Gardner, —— ; Weymouth, 27.51 ; Southbridge, —— ; Watertown, 4.68 ; Plymouth, ——.

The total death rate for the week was 20.17, as compared with 18.01 and 17.10 for the previous two weeks.

Cases of Infectious Diseases reported to the State Board of Health during the Week ending Jan. 31, 1903.

(Under the Provisions of section 52 of chapter 75, of the Revised Laws of Massachusetts.)

Scarlet fever, ...	139	Typhoid fever, ...	19
Diphtheria and croup, ...	185	Measles, ...	282
Small-pox, ...	19		

(SIGNED) S. W. ABBOTT, M.D.,

Secretary of the State Board of Health.

The Meteorological Record for the Week, in Boston, was as follows:

DATE.	BAROM-ETER.	THER-MOMETER.			RELATIVE HUMIDITY.			DIRECTION OF WIND.		VELOCITY OF WIND.			STATE OF WEATHER.*			RAIN-FALL.	
Week ending Saturday, Jan. 31, 1903.	MEAN.	MEAN.	MAXIMUM.	MINIMUM.	8 A.M.	8 P.M.	MEAN.	8 A.M.	8 P.M.	8 A.M.	8 P.M.		8 A.M.	8 P.M.		DURATION.	AMOUNT IN INCHES.
Sunday, . . 25,	30.32	18	20	16	93	82	87	N.	N.	12	16		N.	N.			0.12
Monday, . . 26,	30.46	22	27	16	82	63	73	N.	S.	10	5		O.	C.			T
Tuesday, . . 27,	30.29	32	42	23	77	83	80	S.	W.	8	15		O.	O.			0.00
Wednesday, . 28,	30.00	42	49	36	88	100	94	S. W.	N. W.	7	5		R.	G.			0.02
Thursday, . . 29,	29.94	34	39	29	100	100	100	N. E.	E.	6	8		G.	G.			T
Friday, . . 30,	29.42	38	48	27	100	53	76	N. W.	W.	5	22		G.	C.			0.40
Saturday, . . 31,	29.80	30	34	26	60	66	63	W.	W.	20	19		C.	C.			0.00
Week, . . .	30.03		37	25			82										0.54

* O. = Cloudy; C. = Clear; F. = Fair; G. = Fog; H. = Hazy; S. = Smoky; R. = Rain; T. = Threatening; N. = Snow.

Weekly Bulletin

OF THE

STATE BOARD OF HEALTH

OF

MASSACHUSETTS

FOR THE

Week ending Saturday, Feb. 7, 1903.

An official publication of the State Board of Health of Massachusetts, published weekly at the office of the Board, State House, Boston, Mass.

VOL. XXI. No. 6.

Entered at the post-office at Boston as second-class matter.

This publication contains the returns of deaths made each week to the State Board of Health from cities and towns in Massachusetts having over 10,000 inhabitants in each.

It also contains the reports of cases of infectious diseases returned by the boards of health of cities and towns.

Once in each month the work done under the Food and Drug Acts is also reported in this bulletin.

STATE BOARD OF HEALTH.

HENRY P. WALCOTT, M.D., Cambridge, *Chairman.*
JULIAN A. MEAD, M.D., Watertown.
HIRAM F. MILLS, C.E., Lawrence.
GERARD C. TOBEY, Esq., Wareham.
JAMES W. HULL, Pittsfield.
CHARLES H. PORTER, Quincy.
JOHN W. BARTOL, M.D., Boston.

SAMUEL W. ABBOTT, M.D., *Secretary.*

MORTALITY OF MASSACHUSETTS

For the Week ending Feb. 7, 1903.

Deaths reported to the State Board of Health in 41 Cities and Greater Towns.

The number of deaths *reported* each week does not exactly correspond with the number which *occurred* during that week, but the discrepancy is a slight one in most cases. The mortality report is published weekly, and contains the returns from such cities and towns having a population of more than 10,000 inhabitants as have sent to the office of the State Board of Health the death returns of the previous week.

We shall esteem it a great favor if all reporting towns will send us their returns weekly, as heretofore, upon postal cards provided for the purpose. A supply of these cards will be sent to any town clerk or health officer who has charge of such returns and is willing to comply with this request.

CITIES AND TOWNS.	*Population. Estimated for 1903.	Reported Deaths in Each.	Deaths under Five Years.	Deaths from					
				Principal Infectious Diseases.	Acute Lung Diseases.	Phthisis.	Diphtheria and Croup.	Whooping-cough.	Scarlet Fever.
Boston,	603,163	251	64	49	54	29	5	4	2
Worcester,	132,044	40	14	4	7	1	..	..	1
Fall River,	115,549	54	26	14	13	4	2	..	..
Lowell,	101,959	47	17	7	15	5	1	..	1
Cambridge,	98,639	34	12	3	10	1	..	..	1
Lynn,	72,497	24	6	2	2	..	2	..	..
Lawrence,	69,766	29	12	6	11	3	2	..	..
Springfield,	69,389	21	7	7	5	3	1	1	..
Somerville,	68,110	26	8	3	7	..	1	..	1
New Bedford,	67,198	25	12	6	7	3	..	..	2
Holyoke,	49,286	17	12	4	5	2	1	..	..
Brockton,	44,873	17	3	1	..	..	..	..	..
Haverhill,	42,104	14	4	2	3	1	..	..	..
Newton,	37,794	8	1	2	..	1	1	..	..
Salem,	36,876	21	4	2	..	2	..	..	..
Malden,	36,286	19	11	..	2	..	..	..	..
Chelsea,	35,876	13	4	..	4	..	..	..	..
Fitchburg,	35,069	10	2	2	1	1	..	1	..
Taunton,	33,656	9	1	2	..	1	..	..	..
Everett,	28,620	14	6	1	..	..	1	..	..
North Adams,	27,862	8	4	1	3	..	1	..	..
Gloucester,	26,121	6	2	2	..	1	1	..	..
Quincy,	26,042	7	..	1	3	1	..	..	..
Waltham,	25,198	7	3	1	..	1	..	..	..
Brookline,	22,608	5	2	..	..	..	..	..	..
Pittsfield,	22,589	4	1	..	..	..	..	..	..
Chicopee,	21,031	6	4	..	2	..	..	..	..
Medford,	20,962	6	3	..	1	..	..	..	..
Northampton,	19,883	6	2	..	..	..	..	..	..
Beverly,	15,302	3	..	..	..	..	..	..	..
Clinton,	15,161	7	..	1	2	1	..	..	..
Leominster,	14,806	..	..	..	..	..	..	..	..
Newburyport,	14,478	2	1	1	1	1	..	..	..
Woburn,	14,300	4	1	..	..	..	..	..	..
Hyde Park,	14,175	..	..	..	..	..	..	..	..
Marlborough,	13,609	6	3	..	..	..	..	..	..
Melrose,	13,600	3	1	..	1	..	..	..	..
Westfield,	13,418	3	1	..	..	..	..	..	..
Revere,	12,722	6	2	1	2	1	..	..	..
Framingham,	12,534	7	1	2	3	1	..	..	..
Gardner,	11,928	..	..	..	..	..	..	..	..
Weymouth,	11,344	5	1	..	2	..	..	..	..
Southbridge,	11,268	4	1	..	1	..	..	..	..
Watertown,	11,077	3	..	2	..	1	..	..	..

RECAPITULATION.

	Population.	Deaths.	Deaths under Five.	Infectious Diseases.	Acute Lung Diseases.	Phthisis.	Diphtheria and Croup.	Whooping-cough.	Scarlet Fever.
Total of reporting towns,	2,149,863	801	259	129	167	65	19	6	8

Note.—*The populations of the Massachusetts cities were estimated upon the rate of growth from 1895 to 1900, since the State had an intermediate census in 1895. The populations of Gloucester, Marlborough and Newburyport were allowed to stand as in 1900, they having suffered a slight decrease during the five-year period.

Deaths from Prevalent Diseases in 41 Cities and Larger Towns of Massachusetts.

One hundred and twenty-nine deaths were reported from the principal infectious diseases : measles, 4 ; scarlet fever, 8 ; cerebro-spinal meningitis, 4 ; diphtheria and croup, 19 ; whooping-cough, 6 ; typhoid fever, 7 ; diarrhœal diseases, 11 ; erysipelas, 2 ; influenza, 3.

No deaths were reported from malarial fever, puerperal fever or small-pox.

There were 65 deaths from consumption, acute lung diseases, 167, still-births, 46.

From measles : Worcester and Cambridge, 1 each ; Springfield, 2. From scarlet fever : Boston, 2 ; New Bedford, 2 ; Worcester, Lowell, Cambridge and Somerville, 1 each. From typhoid fever : Boston and Fall River, 2 each ; Lawrence, New Bedford and Framingham, 1 each. From erysipelas : Boston, 2. From whooping-cough : Boston, 4 ; Springfield and Fitchburg, 1 each.

Deaths under five years of age numbered 259, as compared with 250 for the preceding week.

Deaths from the principal infectious diseases numbered 129, as compared with 137 for the preceding week.

The death rates for the week were : Boston, 21.63 ; Worcester, 15.75 ; Fall River, 24.30 ; Lowell, 23.97 ; Cambridge, 17.92 ; Lynn, 17.21 ; Lawrence, 21.61 ; Springfield, 15.73 ; Somerville, 19.85 ; New Bedford, 19.34 ; Holyoke, 17.93 ; Brockton, 19.70 ; Haverhill, 17.29 ; Newton, 11.00 ; Salem, 29.61 ; Malden, 27.22 ; Chelsea, 18.85 ; Fitchburg, 14.83 ; Taunton, 13.90 ; Everett, 25.45 ; No. Adams, 14.93 ; Gloucester, 11.95 ; Quincy, 13.98 ; Waltham, 14.44 ; Brookline, 11.50 ; Pittsfield, 9.21 ; Chicopee, 14.84 ; Medford, 14.88 ; Northampton, 15.68 ; Beverly, 10.20 ; Clinton, 24.01 ; Leominster, —— ; Newburyport, 7.18 ; Woburn, 14.54 ; Hyde Park, —— ; Adams, —— ; Attleborough, —— ; Marlborough, 22.62 ; Melrose, 11.31 ; Westfield, 11.64 ; Milford, —— ; Revere, 24.56 ; Framingham, 29.12 ; Peabody, —— ; Gardner, —— ; Weymouth, 22.92 ; Southbridge, 18.46 ; Watertown, 14.05 ; Plymouth, ——.

The total death rate for the week was 19.37, as compared with 20.17 and 18.01 for the previous two weeks.

Cases of Infectious Diseases reported to the State Board of Health during the Week ending Feb. 7, 1903.

(Under the Provisions of section 52 of chapter 75, of the Revised Laws of Massachusetts.)

Scarlet fever, ...	131	Typhoid fever, ...	31
Diphtheria and croup, ...	134	Measles, ...	304
Small-pox, ...	22		

(SIGNED) **S. W. ABBOTT, M.D.,**

Secretary of the State Board of Health.

The Meteorological Record for the Week, in Boston, was as follows:

DATE.	BAROM-ETER.	THER-MOMETER.			RELATIVE HUMIDITY.			DIRECTION OF WIND.		VELOCITY OF WIND.			STATE OF WEATHER.*			RAIN-FALL.	
Week ending Saturday, Feb. 7, 1903.	MEAN.	MEAN.	MAXIMUM.	MINIMUM.	8 A.M.	8 P.M.	MEAN.	8 A.M.	8 P.M.	8 A.M.	8 P.M.		8 A.M.	8 P.M.		DURATION.	AMOUNT IN INCHES.
Sunday, . . 1,	30.11	30	35	26	62	76	69	W.	E.	6	6		O.	O.			0.00
Monday, . . 2,	29.97	37	41	33	78	100	89	W.	E.	4	5		O.	R.			0.16
Tuesday, . . 3,	30.00	43	49	37	72	52	62	W.	N. E.	7	3		C.	C.			0.01
Wednesday, . 4,	29.40	38	42	34	100	100	100	S. E.	N. W.	20	10		R.	R.			0.51
Thursday, . . 5,	29.38	28	35	21	71	50	60	W.	N. W.	14	26		O.	F.			0.20
Friday, . . 6,	30.00	30	37	22	43	55	49	W.	N. W.	15	7		C.	C.			0.00
Saturday, . . 7,	30.27	26	32	21	59	64	62	N. W.	S.	12	9		C.	C.			0.00
Week, . . .	29.88		39	28			70										0.88

* O. = Cloudy; C. = Clear; F. = Fair; G. = Fog; H. = Hazy; S. = Smoky; R. = Rain; T. = Threatening; N. = Snow.

Weekly Bulletin

OF THE

STATE BOARD OF HEALTH

OF

MASSACHUSETTS

FOR THE

Week ending Saturday, Feb. 14, 1903.

An official publication of the State Board of Health of Massachusetts, published weekly at the office of the Board, State House, Boston, Mass.

VOL. XXI. No. 7.

Entered at the post-office at Boston as second-class matter.

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It also contains the reports of cases of infectious diseases returned by the boards of health of cities and towns.

Once in each month the work done under the Food and Drug Acts is also reported in this bulletin.

STATE BOARD OF HEALTH.

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SAMUEL W. ABBOTT, M.D., *Secretary.*

MORTALITY OF MASSACHUSETTS

For the Week ending Feb. 14, 1903.

Deaths reported to the State Board of Health in 41 Cities and Greater Towns.

The number of deaths *reported* each week does not exactly correspond with the number which *occurred* during that week, but the discrepancy is a slight one in most cases. The mortality report is published weekly, and contains the returns from such cities and towns having a population of more than 10,000 inhabitants as have sent to the office of the State Board of Health the death returns of the previous week.

We shall esteem it a great favor if all reporting towns will send us their returns weekly, as heretofore, upon postal cards provided for the purpose. A supply of these cards will be sent to any town clerk or health officer who has charge of such returns and is willing to comply with this request.

CITIES AND TOWNS.	*Population. Estimated for 1903.	Reported Deaths in Each.	Deaths under Five Years.	Deaths from: Principal Infectious Diseases.	Acute Lung Diseases.	Phthisis.	Diphtheria and Croup.	Whooping-cough.	Measles.
Boston,	603,163	243	66	45	53	26	2	6	..
Worcester,	132,044	40	16	6	9	1	..	2	1
Fall River,	115,549	45	19	7	10	3	1	..	1
Lowell,	101,959	42	12	3	6	1	..	..	..
Cambridge,	98,639	27	5	3	7	2	..	1	..
Lynn,	72,497	28	10	2	..	1	1	..	..
Lawrence,	69,766	19	10	2	11	..	..	..	..
Springfield,	69,389	31	10	10	2	2	2	3	2
Somerville,	68,110	16	5	9	1	1	..	..	..
New Bedford,	67,198	25	11	5	6	2	..	1	..
Holyoke,	49,286	..	..	..	..	..	..	..	..
Brockton,	44,873	9	1	..	..	..	..	..	..
Haverhill,	42,104	19	5	3	5	2	..	1	..
Newton,	37,794	10	2	2	2	1	1	..	..
Salem,	36,876	20	5	1	3	..	..	..	..
Malden,	36,286	9	3	1	..	1	..	..	..
Chelsea,	35,876	16	3	4	2	3	..	1	..
Fitchburg,	35,069	14	5	4	..	..	2	2	..
Taunton,	33,656	15	3	4	..	2	1	..	..
Everett,	28,620	8	2	..	..	..	..	..	..
North Adams,	27,862	8	3	1	1	..	1	..	..
Gloucester,	26,121	13	3	..	..	..	..	..	..
Quincy,	26,042	8	4	3	2	1	1	1	..
Waltham,	25,198	6	1	..	..	..	..	..	..
Brookline,	22,608	6	..	..	..	..	..	..	..
Pittsfield,	22,589	5	..	..	2	..	..	..	..
Chicopee,	21,031	8	3	1	1	1	..	..	..
Medford,	20,962	2	2	..	..	..	..	..	..
Northampton,	19,883	6	2	2	..	1	1	..	..
Beverly,	15,302	2	..	1	..	1	..	..	..
Clinton,	15,161	7	5	1	3	1	..	..	..
Leominster,	14,806	..	..	..	..	..	..	..	..
Newburyport,	14,478	12	0	..	2	..	..	..	..
Woburn,	14,300	7	1	..	1	..	..	..	..
Hyde Park,	14,175	4	3	3	..	1	..	..	..
Marlborough,	13,609	3	0	..	..	..	..	..	..
Melrose,	13,600	9	..	2	2	1	..	1	..
Westfield,	13,418	3	1	..	1	..	..	..	..
Revere,	12,722	2	..	..	..	..	..	..	..
Framingham,	12,534	1	1	1	..	..	..	1	..
Gardner,	11,928	..	..	..	..	..	..	..	..
Weymouth,	11,344	6	1	..	3	..	..	..	..
Southbridge,	11,268	5	..	1	1	1	..	..	..
Watertown,	11,077	3	2	..	..	..	..	..	..

RECAPITULATION.

	Population.	Deaths.	Deaths under Five.	Infectious Diseases.	Acute Lung Diseases.	Phthisis.	Diphtheria and Croup.	Whooping-cough.	Measles.
Total of reporting towns,	2,114,752	762	225	127	136	56	13	20	4

Note.—*The populations of the Massachusetts cities were estimated upon the rate of growth from 1895 to 1900, since the State had an intermediate census in 1895. The populations of Gloucester, Marlborough and Newburyport were allowed to stand as in 1900, they having suffered a slight decrease during the five-year period.

Deaths from Prevalent Diseases in 41 Cities and Larger Towns of Massachusetts.

One hundred and twenty-seven deaths were reported from the principal infectious diseases: measles, 4; scarlet fever, 6; cerebro-spinal meningitis, 4; diphtheria and croup, 13; whooping-cough, 20; typhoid fever, 1; diarrhœal diseases, 12; erysipelas, 1; influenza, 4; puerperal fever, 1; small-pox, 2.

No deaths were reported from malarial fever.

There were 56 deaths from consumption, acute lung diseases, 136, still-births, 49.

From measles: Worcester, 1; Fall River, 1; Springfield, 2. From scarlet fever: Boston, 1; New Bedford, 3; Hyde Park, 2. From typhoid fever: Lowell, Lawrence, Springfield and Somerville, 1 each. From erysipelas: Boston, 1. From influenza, Somerville, 3; Taunton, 1.

Deaths under five years of age numbered 225, as compared with 259 for the preceding week.

Deaths from the principal infectious diseases numbered 127, as compared with 129 for the preceding week.

The death rates for the week were: Boston, 20.94; Worcester, 15.75; Fall River, 20.25; Lowell, 21.42; Cambridge, 14.23; Lynn, 20.08; Lawrence, 14.16; Springfield, 23.22; Somerville, 12.21; New Bedford, 19.34; Holyoke, ——; Brockton, 10.43; Haverhill, 23.46; Newton, 13.75; Salem, 28.20; Malden, 12.90; Chelsea, 23.20; Fitchburg, 20.76; Taunton, 23.17; Everett, 14.54; No. Adams, 14.93; Gloucester, 25.90; Quincy, 15.98; Waltham, 12.38; Brookline, 13.80; Pittsfield, 11.51; Chicopee, 19.78; Medford, 4.96; Northampton, 15.67; Beverly, 6.80; Clinton, 24.01; Leominster, ——; Newburyport, 43.09; Woburn, 25.45; Hyde Park, 14.68; Adams, ——; Attleborough, ——; Marlborough, 11.31; Melrose, 33.94; Westfield, 26.64; Milford, ——; Revere, 8.19; Framingham, 4.16; Peabody, ——; Gardner, ——; Weymouth, 27.51; Southbridge, 23.07; Watertown, 14.05; Plymouth, ——.

The total death rate for the week was 18.72, as compared with 19.37 and 20.17 for the previous two weeks.

Cases of Infectious Diseases reported to the State Board of Health during the Week ending Feb. 14, 1903.

(Under the Provisions of section 52 of chapter 75, of the Revised Laws of Massachusetts.)

Scarlet fever,	148	Typhoid fever,	29
Diphtheria and croup,	149	Measles,	303
Small-pox,	12		

(SIGNED) **S. W. ABBOTT, M.D.,**

Secretary of the State Board of Health.

The Meteorological Record for the Week, in Boston, was as follows:

DATE.	BAROM-ETER.	THER-MOMETER.			RELATIVE HUMIDITY.			DIRECTION OF WIND.		VELOCITY OF WIND.			STATE OF WEATHER.*			RAIN-FALL.	
Week ending Saturday, Feb. 14, 1903.	MEAN.	MEAN.	MAXIMUM.	MINIMUM.	8 A.M.	8 P.M.	MEAN.	8 A.M.	8 P.M.	8 A.M.	8 P.M.		8 A.M.	8 P.M.		DURATION.	AMOUNT IN INCHES.
Sunday, 8,	29.76	30	43	18	64	100	82	N. W.	S.	2	18		O.	R.			0.31
Monday, 9,	29.76	29	33	25	58	52	55	W.	N. W.	25	20		C.	C.			0.02
Tuesday, 10,	30.14	34	43	26	66	59	62	W.	W.	14	12		O.	C.			0.00
Wednesday, 11,	29.85	42	59	35	66	96	81	S. W.	S. E.	8	24		O.	R.			0.07
Thursday, 12,	29.64	44	50	38	67	65	66	W.	W.	30	20		O.	C.			0.28
Friday, 13,	30.02	44	50	37	73	65	69	S. W.	W.	7	13		F.	O.			0.00
Saturday, 14,	30.22	30	37	24	47	37	42	N. W.	N. W.	12	13		C.	C.			0.00
Week,	29.91		44	29			65										0.68

* O. = Cloudy; C. = Clear; F. = Fair; G. = Fog; H. = Hazy; S. = Smoky; R. = Rain; T. = Threatening; N. = Snow.

INSPECTION OF FOOD AND DRUGS.

The following summary presents the results of the examinations of Food and Drugs by the State Board of Health in the month of January, 1903 : —

ARTICLES EXAMINED.	Number found to be of good quality.	Number adulterated or varying from the legal standard.	TOTAL.	ARTICLES EXAMINED.	Number found to be of good quality.	Number adulterated or varying from the legal standard.	TOTAL.
Milk, .	231	256	487	Maple Syrup, .	4	2	6
Butter,	15	..	15	Canned Goods, .	..	..	..
Cheese, . . .	..	..	..	Honey, . . .	6	2	8
Lard, . . .	2	17	19	Condensed Milk, .	15	4	19
Olive Oil, . . .	..	..	..	Coffee, . . .	9	..	9
Vinegar, . . .	4	9	13	Cocoa and Chocolate,	3	3	6
Spices, . . .	75	13	88	Confectionery, .	2	..	2
Cream of Tartar, .	21	..	21	Vanilla Extract,	..	4	4
Molasses, . . .	9	1	10	Lemon Extract .	..	4	4
Syrups, . . .	1	..	1	Miscellaneous, .	8	10	18
Maple Sugar, . .	..	..	..	Drugs, . . .	78	57	135
				Totals, . .	483	382	865

Percentage of adulteration, 44.2. The actual ratio of adulteration is very much less than this, since it is only suspicious articles of food to which the attention of the Board is directed. Certain staple products, such as sugar, flour, and the various other cereal products, are very rarely adulterated, and require but little inspection. The work of the Board is therefore mainly devoted to the inspection of such articles as it has found, by several years of experience, to be especially liable to adulteration.

The ratio of samples of milk found to be below the standard was 52.6 per cent., while the percentage of articles of food was 28.4 per cent.

Ten complaints were entered in the courts during the month for violation of the laws relative to the inspection of food and drugs.

The samples of drugs found to be adulterated were Æther, Alcohol, Aqua Ammonia, Aqua Destillata, Cera Flava, Chloroformum, Extractum Glycyrrhizae, Glycerinum, Oleum Limonis, Oleum Olivæ, Opii Pulvis, Potassi Iodium, Spiritus Aetheris Nitrosi, Sulphur Lotum, Sulphur Præcipitatum, Tinctura Iodi, and Zingiber.

Cities and towns from which samples of food were collected were Boston, Lawrence, Somerville, Everett, Fall River, Taunton, Chelsea, Medford, Malden, Newburyport, Cambridge, Worcester, Revere, Clinton, Brookline, Attleborough, Stoughton, Dedham, Needham, Quincy, Lowell, Haverhill, Newton, Gloucester, Waltham, Northampton, Beverly, Greenfield and Arlington.

RECORD OF PROSECUTIONS IN JANUARY, 1903.

No.	Date of Trial.	Name of Defendant.	Place.	Character of Articles Sold.	Result of Trial.
1	January 3,	John M. Morin,	Lawrence,	Compound Lard,	Conviction.
2	January 3,	Joseph Fluet,	Lawrence,	Compound Lard,	Conviction.
3	January 6,	Omer J. Poitras,	Lawrence,	Compound Lard,	Conviction.
4	January 6,	Magliore Dionne,	Lawrence,	Compound Lard,	Conviction.
5	January 6,	Alfred Gingras,	Lawrence,	Compound Lard,	Conviction.
6	January 6,	Frank W. Anderson,	Lawrence,	Compound Lard,	Conviction.
7	January 6,	Chas. W. Taylor,	Lawrence,	Compound Lard,	Conviction.
8	January 19,	Wm. & Joseph Povlack,	Chelsea,	Compound Lard,	Conviction.
9	January 26,	Murty J. Coppinger,	Chelsea,	Compound Lard,	Conviction.
10	January 26,	Isaac Klemins,	Chelsea,	Compound Lard,	Conviction.

Note. — All the above-named cases were brought for failure to comply with the law in regard to the proper marking of packages.

Total amount of fines, $110.00.

Commonwealth of Massachusetts.—State Board of Health.

Publication of Results of Analyses of Certain Articles of Food, required by Chapter 272, of the Acts of 1902. For the Month of January, 1903.

Number of Sample.	Date of Collection.	City or Town where Purchased.	Character of Sample.	Brand or Name of Manufacturer, Wholesaler or Producer.	Results of Analyses.
4245L	Oct. 27, 1902.	Boston.	Condensed Milk.	Table Brand.	Condensed skimmed milk; fat in original milk, 1.68 per cent., fat in sample, 4.20 per cent.
4645L	Nov. 22, 1902.	North Adams.	Raspberry Jam.	Ayer Preserving Co., Ayer, Mass.	Preserved with benzoate of sodium.
5129L	Dec. 15, 1902.	North Adams.	Strawberry Jelly.	Ayer Preserving Co., Ayer, Mass.	Colored with a coal tar dye to conceal its inferior condition.
5131L	Dec. 15, 1902.	North Adams.	Raspberry Jelly.	Ayer Preserving Co., Ayer, Mass.	Colored with a coal tar dye to conceal its inferior condition.
5133L	Dec. 15, 1902.	North Adams	Currant Jelly.	Ayer Preserving Co., Ayer, Mass.	Colored with a coal tar dye to conceal its inferior condition.
5127L	Dec. 15, 1902.	North Adams.	Orange Marmalade.	Franklin Preserving Co., N. Y.	Adulterated with apples and incorrectly marked.
5437L	Dec. 29, 1902.	Cambridge.	Cocoa.	John T. Connor.	Contains corn and wheat starch, marked "absolutely pure."
4803L	Nov. 28, 1902.	Brookline.	Mustard.	"M. O'Keeffe's English."	Largely mustard hulls colored with turmeric.
5279L	Dec. 20, 1902.	Waltham.	Mace.	"M. O'Keeffe's Choice."	Contains wild mace.
45620	Nov. 22, 1902.	North Adams.	Canned Peas.	"Rose Bud Early June."	Soaked.
45161	Oct. 11, 1902.	North Adams	Cinnamon.	Weidman, Ward & Co., Albany.	30 per cent. corn starch, nutshells and turmeric.
45619	Nov. 21, 1902.	North Adams.	Pepper.	Challenge Mills.	70 per cent. corn starch.
45163	Oct. 11, 1902.	North Adams.	Ginger.	C. N. Fort & Co., Albany.	Turmeric and foreign starch.
45157	Oct. 11, 1902.	North Adams.	Pepper.	Bacon, Stickney & Co., Albany.	20 per cent. buckwheat.
45155	Oct. 11, 1902.	North Adams.	Coffee.	"Red Clover," Darling & Co., Troy, N. Y.	50 per cent. peas, pea hulls and chicory.
8358J	Dec. 1, 1902.	Boston,	"Condensed Cream."	Connor Brand, manufactured by Huron Condensed Milk Co., Ubly, Mich.	Condensed skimmed milk; fat in original milk, 2.44 per cent, fat in sample, 6.00 per cent.
5103L	Dec. 15, 1902.	North Adams.	Strawberry Jelly.	Francis H. Leggett & Co., N. Y.	Largely apple jelly.
5105L	Dec. 15, 1902.	North Adams.	Red Currant Jelly.	Francis H. Leggett & Co, N. Y.	Largely apple jelly.
5451L	Dec. 30, 1902.	Boston.	Strawberry Jam.	E. T. Cowdrey & Co., Boston, Mass.	Artificially colored.
5449L	Dec. 30, 1902.	Boston.	Raspberry Jam.	E. T. Cowdrey & Co., Boston, Mass.	Artificially colored.
5459L	Dec. 30, 1902.	Boston.	Quince Jam.	Haskell, Adams & Co., Boston, Mass.	Apple jelly, glucose and fruit, colored, not correctly labelled, color not specified.
5457L	Dec. 30, 1902.	Boston.	Raspberry Jam.	Haskell, Adams & Co., Boston, Mass.	Apple jelly, glucose and fruit, colored, not correctly labelled, color not specified.
9254J	Jan. 15, 1903.	Boston.	Plum Jam.	Eagle Brand, Anderson Preserving Co., Camden, N. J.	Colored to conceal its inferior condition.
46077	Jan. 9, 1903.	Fall River.	Mass Stan'd Vinegar.	Fearnley & Sidebotham, Fall River, Mass.	Spirit vinegar colored with caramel.
5763L	Jan. 13, 1903.	Haverhill.	Honey.	Huntington Maple Syrup & Sugar Co., Providence, R. I.	5 per cent. commercial glucose present.
8946J	Jan. 1, 1903.	Clinton.	Honey.	"Preferred Stock," Martin L. Hall Co., Boston, Mass.	Admixture of 33 per cent. cane sugar.
5435L	Dec. 29, 1902.	Cambridge.	Maple Syrup.	John T. Connor, Boston, Mass.	Admixture of sugar other than maple sugar.
46141	Jan. 16, 1903.	Medford.	Maple Syrup.	Eastern Grocers' Specialty Co, Chelsea, Mass.	Admixture of sugar other than maple sugar.
9318J	Jan. 19, 1903.	Worcester.	Molasses.	Dove Brand Fancy Refined New Orleans Molasses, The T. H. Alexander Co., New Orleans, La.	Admixture of 45 per cent. commercial glucose.
5527L	Jan. 1, 1903.	Haverhill.	Cocoa.	"Union Breakfast," Union Grocery Co., Haverhill, Mass.	Admixture of wheat starch.
9210J	Jan. 14, 1903.	Boston.	Cocoa.	"Brewster's Royal," Brewster Cocoa Mfg. Co., Newark, N. J.	Admixture of wheat starch.
45985	Dec. 29, 1902.	Malden.	Cocoa.	Brewster's Caracas Breakfast, Brewster Cocoa Mfg. Co., Newark, N. J.	Admixture of cornstarch.
46159	Jan. 20, 1903.	Malden.	"Entire Wheat Coffee."	"Old Grist Mill," Potter & Wrightington, Boston, Mass.	Admixture of coffee and peas.
9194J	Jan. 13, 1903.	Chelsea.	Lemon Extract.	Parker's 10-cent, Parker Specialty Co., Melrose, Mass.	0.4 per cent. lemon oil. Purports to contain 3 per cent.
9206J	Jan. 13, 1903.	Chelsea.	Lemon Extract.	"Royal," John Burnett & Co., Boston.	Only 1 per cent. lemon oil. No formula.
9140J	Jan. 10, 1903.	Boston.	Lemon Extract.	"Puritan," R. P. Hoagland, Boston.	Only 0.2 per cent. lemon oil. No formula.
9138J	Jan. 10, 1903.	Boston.	Vanilla Extract.	"Perfection," Perfection Extract Co., N. Y.	No part of the vanilla bean. Product mis-named.
5621L	Jan. 5, 1903.	Greenfield.	Mace.	"Blue Ribbon Pure Penang," Austin, Nichols & Co., N. Y.	Admixture of Bombay or wild mace.

Weekly Bulletin

OF THE

STATE BOARD OF HEALTH

OF

MASSACHUSETTS

FOR THE

Week ending Saturday, Feb. 21, 1903.

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MORTALITY OF MASSACHUSETTS

For the Week ending Feb. 21, 1903.

Deaths reported to the State Board of Health in 42 Cities and Greater Towns.

The number of deaths *reported* each week does not exactly correspond with the number which *occurred* during that week, but the discrepancy is a slight one in most cases. The mortality report is published weekly, and contains the returns from such cities and towns having a population of more than 10,000 inhabitants as have sent to the office of the State Board of Health the death returns of the previous week.

We shall esteem it a great favor if all reporting towns will send us their returns weekly, as heretofore, upon postal cards provided for the purpose. A supply of these cards will be sent to any town clerk or health officer who has charge of such returns and is willing to comply with this request.

CITIES AND TOWNS.	*Population. Estimated for 1903.	Reported Deaths in Each.	Deaths under Five Years.	Deaths from					
				Principal Infectious Diseases.	Acute Lung Diseases.	Phthisis.	Diphtheria and Croup.	Whooping-cough.	Scarlet Fever.
Boston,	603,163	197	57	40	50	21	6	5	2
Worcester,	132,044	61	23	10	14	2	4	1	..
Fall River,	115,549	58	28	10	18	4	1	..	..
Lowell,	101,959	41	12	6	7	2	3	..	..
Cambridge,	98,639	27	7	4	2	2	1	1	..
Lynn,	72,497	39	13	3	..	2	..	1	..
Lawrence,	69,766	23	10	6	4	4	..	1	..
Springfield,	69,389	17	1	2	1	1	..	..	..
Somerville,	68,110	17	3	2	3	1	..	..	1
New Bedford,	67,198	33	17	7	11	1	2	1	2
Holyoke,	49,286	17	8	3	2	2	..	..	..
Brockton,	44,873	11	2	4	..	3	..	1	..
Haverhill,	42,104	6	..	1	2	1	..	..	..
Newton,	37,794	11	..	..	..	..	..	..	..
Salem,	36,876	12	4	..	3	..	..	..	..
Malden,	36,286	12	4	1	2	..	1	..	..
Chelsea,	35,876	9	1	..	..	..	..	..	..
Fitchburg,	35,069	..	..	..	..	..	..	..	..
Taunton,	33,656	11	..	1	3	1	..	..	..
Everett,	28,620	9	4	..	..	..	..	..	..
North Adams,	27,862	4	1	1	1	..	..	..	..
Gloucester,	26,121	4	2	..	..	..	..	..	..
Quincy,	26,042	11	2	3	2	1	1	1	..
Waltham,	25,198	11	2	2	4	1	..	..	..
Brookline,	22,608	9	2	3	2	3	..	..	..
Pittsfield,	22,589	3	..	1	1	..	..	..	..
Chicopee,	21,031	7	2	4	1	1	..	..	1
Medford,	20,962	7	3	2	2	..	1	1	..
Northampton,	19,883	1	..	..	..	..	..	..	..
Beverly,	15,302	6	3	1	2	..	..	..	..
Clinton,	15,161	4	1	1	2	1	..	..	..
Leominster,	14,806	..	..	..	..	..	..	..	..
Newburyport,	14,478	6	1	..	..	..	..	..	..
Woburn,	14,300	6	1	3	..	2	..	..	..
Hyde Park,	14,175	4	..	1	1	1	..	..	..
Marlborough,	13,609	4	1	..	1	..	..	..	..
Melrose,	13,600	4	..	..	..	..	..	..	..
Westfield,	13,418	6	1	1	2	1	..	..	..
Revere,	12,722	2	..	..	..	..	..	..	..
Framingham,	12,534	3	..	1	1	..	1	..	..
Gardner,	11,928	2	..	..	1	..	..	..	..
Weymouth,	11,344	1	1	..	1	..	..	..	..
Southbridge,	11,268	3	..	..	..	..	..	..	..
Watertown,	11,077	5	..	1	1	..	..	..	..

RECAPITULATION.

	Population.	Deaths.	Deaths under Five.	Infectious Diseases.	Acute Lung Diseases.	Phthisis.	Diphtheria and Croup.	Whooping-cough.	Scarlet Fever.
Total of reporting towns,	2,155,703	724	217	125	147	58	21	13	6

Note.—*The populations of the Massachusetts cities were estimated upon the rate of growth from 1895 to 1900, since the State had an intermediate census in 1895. The populations of Gloucester, Marlborough and Newburyport were allowed to stand as in 1900, they having suffered a slight decrease during the five-year period.

Deaths from Prevalent Diseases in 42 Cities and Larger Towns of Massachusetts.

One hundred and twenty-five deaths were reported from the principal infectious diseases: measles, 1; scarlet fever, 6; cerebro-spinal meningitis, 4; diphtheria and croup, 21; whooping-cough, 13; typhoid fever, 6; diarrhœal diseases, 12; erysipelas, 2; influenza, 2.

No deaths were reported from malarial fever or small-pox.

There were 58 deaths from consumption, acute lung diseases, 147, still-births, 57.

From measles: Chicopee, 1. From scarlet fever: Boston, 2; New Bedford, 2; Somerville, 1; Chicopee, 1. From typhoid fever: Worcester, Lowell, Springfield, Waltham, Chicopee and Beverly, 1 each.

Deaths under five years of age numbered 217, as compared with 225 for the preceding week.

Deaths from the principal infectious diseases numbered 125, as compared with 127 for the preceding week.

The death rates for the week were: Boston, 16.98; Worcester, 24.02; Fall River, 26.10; Lowell, 20.91; Cambridge, 14.23; Lynn, 27.96; Lawrence, 17.14; Springfield, 12.74; Somerville, 12.98; New Bedford, 24.21; Holyoke, 17.93; Brockton, 12.75; Haverhill, 8.01; Newton, 15.12; Salem, 16.92; Malden, 17.20; Chelsea, 13.05; Fitchburg, ——; Taunton, 17.00; Everett, 16.36; No. Adams, 7.46; Gloucester, 7.97; Quincy, 21.97; Waltham, 22.69; Brookline, 20.70; Pittsfield, 6.90; Chicopee, 17.31; Medford, 17.37; Northampton, 2.61; Beverly, 20.39; Clinton, 13.72; Leominster, ——; Newburyport, ——; Woburn, 21.82; Hyde Park, 14.68; Adams, ——; Attleborough, ——; Marlborough, 15.08; Melrose, 15.08; Westfield, 23.28; Milford, ——; Revere, 8.19; Framingham, 12.48; Peabody, ——; Gardner, 8.74; Weymouth, 4.58; Southbridge, 13.84; Watertown, 23.42; Plymouth, ——.

The total death rate for the week was 17.46, as compared with 18.72 and 19.37 for the previous two weeks.

Cases of Infectious Diseases reported to the State Board of Health during the Week ending Feb. 21, 1903.

(Under the Provisions of section 52 of chapter 75, of the Revised Laws of Massachusetts.)

Scarlet fever,	136	Typhoid fever,	35
Diphtheria and croup,	131	Measles,	368
Small-pox,	12		

(SIGNED) **S. W. ABBOTT, M.D.,**

Secretary of the State Board of Health.

The Meteorological Record for the Week, in Boston, was as follows:

DATE.	BAROM-ETER.	THER-MOMETER.			RELATIVE HUMIDITY.			DIRECTION OF WIND.		VELOCITY OF WIND.			STATE OF WEATHER.*			RAIN-FALL.	
Week ending Saturday, Feb. 21, 1903.	MEAN.	MEAN.	MAXIMUM.	MINIMUM.	8 A.M.	8 P.M.		MEAN.	8 A.M.	8 P.M.	8 A.M.	8 P.M.		8 A.M.	8 P.M.		DURATION.	AMOUNT IN INCHES.
Sunday, 15,	30.18	28	34	22	48	73		60	N. W.	W.	6	6		O.	O.			0.00
Monday, 16,	29.58	28	31	25	100	90		95	N.	N.	12	14		N.	N.			0.58
Tuesday, 17,	29.34	20	30	9	100	59		80	N.	W.	22	17		N.	C.			1.46
Wednesday, 18,	29.92	8	14	3	73	74		74	S. W.	W.	14	8		C.	C.			0.00
Thursday, 19,	30.29	8	12	4	67	53		60	W.	W.	12	9		C.	C.			0.00
Friday, 20,	30.39	16	26	6	78	50		64	W.	S. W.	10	8		O.	C.			0.00
Saturday, 21,	30.14	26	37	14	82	62		72	S. W.	S.	3	8		O.	C.			0.00
Week,	29.98		26	12				72										2.04

* O. = Cloudy; C. = Clear; F. = Fair; G. = Fog; H. = Hazy; S. = Smoky; R. = Rain; T. = Threatening; N. = Snow.

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MORTALITY OF MASSACHUSETTS

For the Week ending Feb. 28, 1903.

Deaths reported to the State Board of Health in 42 Cities and Greater Towns.

The number of deaths *reported* each week does not exactly correspond with the number which *occurred* during that week, but the discrepancy is a slight one in most cases. The mortality report is published weekly, and contains the returns from such cities and towns having a population of more than 10,000 inhabitants as have sent to the office of the State Board of Health the death returns of the previous week.

We shall esteem it a great favor if all reporting towns will send us their returns weekly, as heretofore, upon postal cards provided for the purpose. A supply of these cards will be sent to any town clerk or health officer who has charge of such returns and is willing to comply with this request.

CITIES AND TOWNS.	*Population. Estimated for 1903.	Reported Deaths in Each.	Deaths under Five Years.	Deaths from					
				Principal Infectious Diseases.	Acute Lung Diseases.	Phthisis.	Diphtheria and Croup.	Whooping-cough.	Scarlet Fever.
Boston,	603,163	240	47	40	51	27	2	2	2
Worcester,	132,044	35	15	5	10	1	..	..	..
Fall River,	115,549	44	25	5	18	3	..	..	1
Lowell,	101,959	43	15	10	9	3	1	2	..
Cambridge,	98,639	30	6	5	5	3	..	..	2
Lynn,	72,497	24	4	3	..	2	..	..	..
Lawrence,	69,766	21	11	3	1	3	..	..	..
Springfield,	69,389	10	2	2	1	1	1	..	..
Somerville,	68,110	24	6	4	6	..	1	1	..
New Bedford,	67,198	35	14	12	6	4	1	..	5
Holyoke,	49,286	14	7	1	3	1	..	..	..
Brockton,	44,873	12	4	3	..	1	..	..	..
Haverhill,	42,104	10	3	2	2	..	..	..	..
Newton,	37,794	6	1	1	1	1	..	..	..
Salem,	36,876	12	3	..	..	..	..	..	..
Malden,	36,286	8	2	..	1	..	..	..	..
Chelsea,	35,876	12	3	3	1	3	..	..	..
Fitchburg,	35,069	13	8	1	2	..	..	1	..
Taunton,	33,656	9	2	1	2	1	..	..	..
Everett,	28,620	8	1	4	..	2	1	..	1
North Adams,	27,862	7	1	..	2	..	..	..	..
Gloucester,	26,121	8	1	2	..	1	1	..	..
Quincy,	26,042	6	1	..	4	..	..	..	..
Waltham,	25,198	10	3	2	1	1	..	1	..
Brookline,	22,608	9	4	3	1	2	..	..	1
Pittsfield,	22,589	5	1	..	2	..	..	..	..
Chicopee,	21,031	10	7	..	4	..	..	..	..
Medford,	20,962	7	2	..	2	..	..	..	..
Northampton,	19,883	5	0	..	..	..	..	..	..
Beverly,	15,302	3	1	..	1	..	..	..	..
Clinton,	15,161	3	2	..	1	..	..	..	..
Leominster,	14,806	..	..	..	..	..	..	..	..
Newburyport,	14,478	13	3	2	3	2	..	..	..
Woburn,	14,300	5	..	..	2	..	..	..	..
Hyde Park,	14,175	9	3	2	3	1	..	..	1
Marlborough,	13,609	3	2	1	2	..	..	..	..
Melrose,	13,600	1	..	..	1	..	..	..	..
Westfield,	13,418	6	..	..	1	..	..	..	..
Revere,	12,722	4	2	1	1	..	..	..	..
Framingham,	12,534	4	1	1	2	1	..	..	..
Gardner,	11,928	..	..	..	..	..	..	..	..
Weymouth,	11,344	8	0	..	5	..	..	..	..
Southbridge,	11,268	6	3	..	2	..	..	..	..
Watertown,	11,077	2	..	..	..	..	..	..	..

RECAPITULATION.

	Population.	Deaths.	Deaths under Five.	Infectious Diseases.	Acute Lung Diseases.	Phthisis.	Diphtheria and Croup.	Whooping-cough.	Scarlet Fever.
Total of reporting towns,	2,164,038	744	216	119	159	65	8	7	13

Note.—*The populations of the Massachusetts cities were estimated upon the rate of growth from 1895 to 1900, since the State had an intermediate census in 1895. The populations of Gloucester, Marlborough and Newburyport were allowed to stand as in 1900, they having suffered a slight decrease during the five-year period.

Deaths from Prevalent Diseases in 42 Cities and Larger Towns of Massachusetts.

One hundred and nineteen deaths were reported from the principal infectious diseases: measles, 4; scarlet fever, 13; cerebro-spinal meningitis, 9; diphtheria and croup, 8; whooping-cough, 7; typhoid fever, 5; diarrhœal diseases, 12; influenza, 2.

No deaths were reported from malarial fever, puerperal fever, erysipelas or small-pox.

There were 65 deaths from consumption, acute lung diseases, 159, still-births, 47.

From measles: Boston, 3; Worcester, 2. From scarlet fever: Boston, 2; Fall River, 1; Cambridge, 2; New Bedford, 5; Everett, Brookline and Hyde Park, 1 each. From typhoid fever: Boston, 2; Lowell, 3.

Deaths under five years of age numbered 216, as compared with 217 for the preceding week.

Deaths from the principal infectious diseases numbered 119, as compared with 125 for the preceding week.

The death rates for the week were: Boston, 20.69; Worcester, 13.78; Fall River, 19.80; Lowell, 21.93; Cambridge, 15.82; Lynn, 17.20; Lawrence, 15.64; Springfield, 7.49; Somerville, 18.32; New Bedford, 27.08; Holyoke, 14.77; Brockton, 13.90; Haverhill, 12.35; Newton, 8.25; Salem, 16.92; Malden, 11.46; Chelsea, 17.00; Fitchburg, 19.28; Taunton, 13.90; Everett, 14.54; No. Adams, 13.06; Gloucester, 15.94; Quincy, 11.98; Waltham, 20.63; Brookline, 20.70; Pittsfield, 11.51; Chicopee, 24.73; Medford, 17.37; Northampton, 13.06; Beverly, 10.19; Clinton, 10.29; Leominster, ——; Newburyport, 46.68; Woburn, 18.18; Hyde Park, 33.02; Adams, ——; Attleborough, ——; Marlborough, 11.31; Melrose, 3.71; Westfield, 23.28; Milford, ——; Revere, 16.37; Framingham, 16.64; Peabody, ——; Gardner, ——; Weymouth, 36.68; Southbridge, 27.68; Watertown, 9.37; Plymouth, ——.

The total death rate for the week was 17.88, as compared with 17.46 and 18.72 for the previous two weeks.

Cases of Infectious Diseases reported to the State Board of Health during the Week ending Feb. 28, 1903.

(Under the Provisions of section 52 of chapter 75, of the Revised Laws of Massachusetts.)

Scarlet fever,	132	Typhoid fever,	36
Diphtheria and croup,	129	Measles,	327
Small-pox,	11		

(SIGNED) **S. W. ABBOTT, M.D.,**
Secretary of the State Board of Health.

The Meteorological Record for the Week, in Boston, was as follows:

DATE.	BAROM-ETER.	THER-MOMETER.			RELATIVE HUMIDITY.			DIRECTION OF WIND.		VELOCITY OF WIND.			STATE OF WEATHER.*			RAIN-FALL.	
Week ending Saturday, Feb. 28, 1903.	MEAN.	MEAN.	MAXIMUM.	MINIMUM.	8 A.M.	8 P.M.		MEAN.	8 A.M.	8 P.M.	8 A.M.	8 P.M.		8 A.M.	8 P.M.		DURATION.	AMOUNT IN INCHES.
Sunday, 22,	30.23	28	34	21	75	64		70	W.	W.	14	12		C.	C.			0.00
Monday, 23,	30.31	31	43	19	63	54		58	S. W.	S. W.	9	12		C.	C.			0.00
Tuesday, 24,	30.18	34	39	30	68	78		73	N. W.	W.	8	5		F.	O.			0.00
Wednesday, 25,	30.24	30	37	24	63	55		59	W.	W.	8	12		C.	C.			0.00
Thursday, 26,	30.34	36	46	26	45	39		42	W.	S. W.	8	15		C.	C.			0.00
Friday, 27,	30.28	47	57	37	37	74		55	W.	S. W.	7	15		C.	O.			0.00
Saturday, 28,	29.56	52	62	43	92	77		84	S. W.	W.	24	29		O.	F.			0.30
Week,	30.16		45	29				66										0.30

* O. = Cloudy; C. = Clear; F. = Fair; G. = Fog; H. = Hazy; S. = Smoky; R. = Rain; T. = Threatening; N. = Snow.

Weekly Bulletin

OF THE

STATE BOARD OF HEALTH

OF

MASSACHUSETTS

FOR THE

Week ending Saturday, Mar. 7, 1903.

An official publication of the State Board of Health of Massachusetts, published weekly at the office of the Board, State House, Boston, Mass.

VOL. XXI. No. 10.

Entered at the post-office at Boston as second-class matter.

This publication contains the returns of deaths made each week to the State Board of Health from cities and towns in Massachusetts having over 10,000 inhabitants in each.

It also contains the reports of cases of infectious diseases returned by the boards of health of cities and towns.

Once in each month the work done under the Food and Drug Acts is also reported in this bulletin.

STATE BOARD OF HEALTH.

Henry P. Walcott, M.D., Cambridge, *Chairman.*
Julian A. Mead, M.D., Watertown.
Hiram F. Mills, C.E., Lawrence.
Gerard C. Tobey, Esq., Wareham.
James W. Hull, Pittsfield.
Charles H. Porter, Quincy.
John W. Bartol, M.D., Boston.

Samuel W. Abbott, M.D., *Secretary.*

MORTALITY OF MASSACHUSETTS

For the Week ending Mar. 7, 1903.

Deaths reported to the State Board of Health in 38 Cities and Greater Towns.

The number of deaths *reported* each week does not exactly correspond with the number which *occurred* during that week, but the discrepancy is a slight one in most cases. The mortality report is published weekly, and contains the returns from such cities and towns having a population of more than 10,000 inhabitants as have sent to the office of the State Board of Health the death returns of the previous week.

We shall esteem it a great favor if all reporting towns will send us their returns weekly, as heretofore, upon postal cards provided for the purpose. A supply of these cards will be sent to any town clerk or health officer who has charge of such returns and is willing to comply with this request.

CITIES AND TOWNS.	*Population. Estimated for 1903.	Reported Deaths in Each.	Deaths under Five Years.	Deaths from Principal Infectious Diseases.	Acute Lung Diseases.	Phthisis.	Diphtheria and Croup.	Whooping-cough.	Scarlet Fever.
Boston,	603,163	241	64	39	61	24	4	6	1
Worcester,	132,044	50	12	8	8	5	..	..	..
Fall River,	115,549	50	27	3	16	..	..	..	..
Lowell,	101,959	40	15	7	9	2	2	..	..
Cambridge,	98,639	32	9	9	6	4	1	3	1
Lynn,	72,497	27	5	5	..	1	2	2	..
Lawrence,	69,766	25	12	5	4	3	..	..	..
Springfield,	69,389	37	12	9	7	3	..	4	1
Somerville,	68,110	23	9	3	7	2	..	..	..
New Bedford,	67,198	35	15	6	10	3	..	1	..
Holyoke,	49,286	12	3	1	3	1	..	..	..
Brockton,	44,873	10	3	3	..	1	..	..	..
Haverhill,	42,104	11	4	2	4	..	..	2	..
Newton,	37,794	15	5	..	..	..	..	..	..
Salem,	36,876	9	3	1	2	1	..	..	..
Malden,	36,286	14	6	2	2	1	1	..	..
Chelsea,	35,876	8	4	2	..	..	..	2	..
Fitchburg,	35,069	8	4	2	3	1	..	1	..
Taunton,	33,656	14	..	6	5	..	..	..	..
Everett,	28,620	2	1	..	..	..	..	..	..
North Adams,	27,862	8	2	3	3	2	..	..	..
Gloucester,	26,121	4	2	2	..	..	2	..	..
Quincy,	26,042	3	1	..	..	..	..	..	..
Waltham,	25,198	8	3	..	1	..	..	..	..
Brookline,	22,608	7	2	1	2	..	..	..	1
Pittsfield,	22,589	2	..	1	1	1	..	..	..
Chicopee,	21,031	7	2	1	2	1	..	..	..
Medford,	20,962	5	..	1	2	..	..	..	..
Northampton,	19,883	6	1	..	..	..	..	..	..
Beverly,	15,302	8	1	2	1	2	..	..	..
Clinton,	15,161	3	..	..	1	..	..	..	..
Leominster,	14,806	..	..	..	..	..	..	..	..
Newburyport,	14,478	..	..	..	..	..	..	..	..
Woburn,	14,300	2	..	1	..	1	..	..	..
Hyde Park,	14,175	..	..	..	..	..	..	..	..
Marlborough,	13,609	11	0	3	2	2	..	..	..
Melrose,	13,600	..	..	..	..	..	..	..	..
Westfield,	13,418	3	1	..	..	..	..	..	..
Revere,	12,722	3	1	1	..	..	..	1	..
Framingham,	12,534	3	..	2	1	1	..	1	..
Gardner,	11,928	..	..	..	..	..	..	..	..
Weymouth,	11,344	2	1	..	..	..	..	..	..
Southbridge,	11,268	..	..	..	..	..	..	..	..
Watertown,	11,077	3	1	1	1	..	..	..	..

RECAPITULATION.

	Population.	Deaths.	Deaths under Five.	Infectious Diseases.	Acute Lung Diseases.	Phthisis.	Diphtheria and Croup.	Whooping-cough.	Scarlet Fever.
Total of reporting towns,	2,110,517	751	231	132	164	62	12	23	4

Note.—*The populations of the Massachusetts cities were estimated upon the rate of growth from 1895 to 1900, since the State had an intermediate census in 1895. The populations of Gloucester, Marlborough and Newburyport were allowed to stand as in 1900, they having suffered a slight decrease during the five-year period.

Deaths from Prevalent Diseases in 38 Cities and Larger Towns of Massachusetts.

One hundred and thirty-two deaths were reported from the principal infectious diseases: measles, 3; scarlet fever, 4; cerebro-spinal meningitis, 5; diphtheria and croup, 12; whooping-cough, 23; typhoid fever, 2; diarrhœal diseases, 8; erysipelas, 2; influenza, 6.

No deaths were reported from malarial fever, puerperal fever or small-pox.

There were 62 deaths from consumption, acute lung diseases, 164, still-births, 56.

From measles: Boston, Lawrence and Springfield, 1 each. From scarlet fever: Boston, Cambridge, Springfield and Brookline, 1 each. From typhoid fever: Lowell, 2. From erysipelas: Lowell and Marlborough, 1 each. From whooping-cough: Boston, 6; Cambridge, 3; Lynn, 2; Springfield, 4; Haverhill, 2; Chelsea, 2; and New Bedford, Fitchburg, Framingham and Revere, 1 each.

Deaths under five years of age numbered 231, as compared with 216 for the preceding week.

Deaths from the principal infectious diseases numbered 132, as compared with 119 for the preceding week.

The death rates for the week were: Boston, 20.77; Worcester, 19.70; Fall River, 22.50; Lowell, 20.40; Cambridge, 16.87; Lynn, 15.16; Lawrence, 18.63; Springfield, 27.72; Somerville, 17.56; New Bedford, 27.08; Holyoke, 12.66; Brockton, 11.59; Haverhill, 13.58; Newton, 20.62; Salem, 12.69; Malden, 20.06; Chelsea, 11.60; Fitchburg, 11.86; Taunton, 21.63; Everett, 3.64; No. Adams, 14.93; Gloucester, 7.97; Quincy, 5.99; Waltham, 16.50; Brookline, 16.10; Pittsfield, 4.60; Chicopee, 17.31; Medford, 14.40; Northampton, 15.68; Beverly, 27.19; Clinton, 11.29; Leominster, ——; Newburyport, ——; Woburn, 7.27; Hyde Park, ——; Adams, ——; Attleborough, ——; Marlborough, 41.48; Melrose, ——; Westfield, 11.64; Milford, ——; Revere, 12.27; Framingham, 12.48; Peabody, ——; Gardner, ——; Weymouth, 9.17; Southbridge, ——; Watertown, 14.05; Plymouth, ——.

The total death rate for the week was 18.47, as compared with 17.88 and 17.46 for the previous two weeks.

Cases of Infectious Diseases reported to the State Board of Health during the Week ending Mar. 7, 1903.

(Under the Provisions of section 52 of chapter 75, of the Revised Laws of Massachusetts.)

Scarlet fever,	156	Typhoid fever,	34
Diphtheria and croup,	122	Measles,	302
Small-pox,	7		

(SIGNED) S. W. ABBOTT, M.D.,
Secretary of the State Board of Health.

The Meteorological Record for the Week, in Boston, was as follows:

DATE.	BAROM-ETER.	THER-MOMETER.			RELATIVE HUMIDITY.			DIRECTION OF WIND.		VELOCITY OF WIND.			STATE OF WEATHER.*			RAIN-FALL.	
Week ending Saturday, Mar. 7, 1903.	MEAN.	MEAN.	MAXIMUM.	MINIMUM.	8 A.M.	8 P.M.	MEAN.	8 A.M.	8 P.M.	8 A.M.	8 P.M.		8 A.M.	8 P.M.		DURATION.	AMOUNT IN INCHES.
Sunday, 1,	29.96	36	48	25	78	56	67	S. W.	W.	14	16		F.	C.			0.00
Monday, 2,	30.42	32	41	23	82	60	71	S. W.	W.	9	9		F.	C.			0.00
Tuesday, 3,	30.67	32	34	29	84	75	80	N. E.	S.	17	8		O.	O.			T
Wednesday, 4,	30.42	42	53	32	86	54	70	S.	N.	9	3		O.	O.			0.00
Thursday, 5,	30.17	41	44	38	83	80	82	E.	S. W.	2	9		O.	O.			0.16
Friday, 6,	30.39	42	47	36	79	59	69	N. W.	N.	14	9		C.	C.			0.02
Saturday, 7,	30.58	40	49	31	81	83	82	N. W.	S. E.	1	11		C.	O.			0.00
Week,	30.37		45	31			74										0.18

* O. = Cloudy; C. = Clear; F. = Fair; G. = Fog; H. = Hazy; S. = Smoky; R. = Rain; T. = Threatening; N. = Snow.

Weekly Bulletin

OF THE

STATE BOARD OF HEALTH

OF

MASSACHUSETTS

FOR THE

Week ending Saturday, Mar. 14, 1903.

An official publication of the State Board of Health of Massachusetts, published weekly at the office of the Board, State House, Boston, Mass.

VOL. XXI. No. 11.

Entered at the post-office at Boston as second-class matter.

This publication contains the returns of deaths made each week to the State Board of Health from cities and towns in Massachusetts having over 10,000 inhabitants in each.

It also contains the reports of cases of infectious diseases returned by the boards of health of cities and towns.

Once in each month the work done under the Food and Drug Acts is also reported in this bulletin.

STATE BOARD OF HEALTH.

HENRY P. WALCOTT, M.D., Cambridge, *Chairman.*
JULIAN A. MEAD, M.D., Watertown.
HIRAM F. MILLS, C.E., Lawrence.
GERARD C. TOBEY, Esq., Wareham.
JAMES W. HULL, Pittsfield.
CHARLES H. PORTER, Quincy.
JOHN W. BARTOL, M.D., Boston.

SAMUEL W. ABBOTT, M.D., *Secretary.*

MORTALITY OF MASSACHUSETTS

For the Week ending Mar. 14, 1903.

Deaths reported to the State Board of Health in 39 Cities and Greater Towns.

The number of deaths *reported* each week does not exactly correspond with the number which *occurred* during that week, but the discrepancy is a slight one in most cases. The mortality report is published weekly, and contains the returns from such cities and towns having a population of more than 10,000 inhabitants as have sent to the office of the State Board of Health the death returns of the previous week.

We shall esteem it a great favor if all reporting towns will send us their returns weekly, as heretofore, upon postal cards provided for the purpose. A supply of these cards will be sent to any town clerk or health officer who has charge of such returns and is willing to comply with this request.

CITIES AND TOWNS.	*Population. Estimated for 1903.	Reported Deaths in Each.	Deaths under Five Years.	Deaths from					
				Principal Infectious Diseases.	Acute Lung Diseases.	Phthisis.	Diphtheria and Croup.	Whooping-cough.	Scarlet Fever.
Boston,	603,163	257	68	52	49	30	6	5	1
Worcester,	132,044	41	17	3	12	1	..	..	1
Fall River,	115,549	52	22	11	19	6	1	..	1
Lowell,	101,959	31	10	4	3	3	..	..	..
Cambridge,	98,639	39	12	6	7	3	..	1	..
Lynn,	72,497	34	8	6	..	1	1	3	..
Lawrence,	69,766	26	11	4	5	3	..	..	..
Springfield,	69,389	32	3	5	5	2	1	..	1
Somerville,	68,110	23	5	5	5	1	..	1	..
New Bedford,	67,198	39	16	6	8	1	1	..	4
Holyoke,	49,286	..	..	..	..	..	..	..	..
Brockton,	44,873	11	3	4	..	..	..	..	2
Haverhill,	42,104	14	..	2	3	1	..	..	..
Newton,	37,794	20	5	1	5	..	..	..	..
Salem,	36,876	18	6	2	..	2	..	..	..
Malden,	36,286	11	5	..	1	..	..	..	..
Chelsea,	35,876	16	5	2	4	1	..	1	..
Fitchburg,	35,069	8	2	..	2	..	..	..	..
Taunton,	33,656	9	0	1	2	1	..	..	..
Everett,	28,620	6	1	1	..	1	..	..	..
North Adams,	27,862	16	2	5	2	4	..	..	..
Gloucester,	26,121	12	5	3	..	1	2	..	..
Quincy,	26,042	4	1	1	..	..	..	..	..
Waltham,	25,198	8	1	2	2	..	..	..	..
Brookline,	22,608	4	..	..	1	..	..	..	..
Pittsfield,	22,589	9	..	3	1	2	1	..	..
Chicopee,	21,031	11	5	5	1	3	..	..	2
Medford,	20,962	9	3	..	3	..	..	..	..
Northampton,	19,883	..	..	..	..	..	..	..	..
Beverly,	15,302	3	1	..	1	..	..	..	..
Clinton,	15,161	3	..	..	..	..	..	..	..
Leominster,	14,806	..	..	..	..	..	..	..	..
Newburyport,	14,478	1	1	1	..	..	..	..	..
Woburn,	14,300	9	2	..	3	..	..	..	..
Hyde Park,	14,175	8	2	3	1	..	..	..	1
Marlborough,	13,609	7	3	..	2	..	..	..	..
Melrose,	13,600	2	..	..	..	..	..	..	..
Westfield,	13,418	7	..	..	1	..	..	..	..
Revere,	12,722	3	..	2	..	1	1	..	..
Framingham,	12,534	6	..	3	1	3	..	..	..
Gardner,	11,928	..	..	..	..	..	..	..	..
Weymouth,	11,344	5	0	2	..	2	..	..	..
Southbridge,	11,268	..	..	..	..	..	..	..	..
Watertown,	11,077	3	..	..	..	..	..	..	..

RECAPITULATION.

	Population.	Deaths.	Deaths under Five.	Infectious Diseases.	Acute Lung Diseases.	Phthisis.	Diphtheria and Croup.	Whooping-cough.	Scarlet Fever.
Total of reporting towns,	2,083,601	817	225	145	149	73	14	11	13

Note.—*The populations of the Massachusetts cities were estimated upon the rate of growth from 1895 to 1900, since the State had an intermediate census in 1895. The populations of Gloucester, Marlborough and Newburyport were allowed to stand as in 1900, they having suffered a slight decrease during the five-year period.

Deaths from Prevalent Diseases in 39 Cities and Larger Towns of Massachusetts.

One hundred and forty-five deaths were reported from the principal infectious diseases: measles, 1; scarlet fever, 13; cerebro-spinal meningitis, 9; diphtheria and croup, 14; whooping-cough, 11; typhoid fever, 6; diarrhœal diseases, 10; erysipelas, 1; influenza, 6; puerperal fever, 1.

No deaths were reported from malarial fever or small-pox.

There were 73 deaths from consumption, acute lung diseases, 149, still-births, 28.

From measles: Worcester, 1. From scarlet fever: New Bedford, 4; Brockton, 2; Chicopee, 2; and Boston, Worcester, Fall River, Springfield and Marlborough, 1 each. From typhoid fever: Boston, 2; Waltham, 2; Lynn, 1; Haverhill, 1. From erysipelas: Springfield, 1.

Deaths under five years of age numbered 225, as compared with 231 for the preceding week.

Deaths from the principal infectious diseases numbered 145, as compared with 132 for the preceding week.

The death rates for the week were: Boston, 22.15; Worcester, 16.14; Fall River, 23.40; Lowell, 15.81; Cambridge, 20.56; Lynn, 24.38; Lawrence, 19.37; Springfield, 23.97; Somerville, 17.56; New Bedford, 30.18; Holyoke, ——; Brockton, 12.75; Haverhill, 17.29; Newton, 27.50; Salem, 25.38; Malden, 15.76; Chelsea, 23.20; Fitchburg, 11.86; Taunton, 13.90; Everett, 10.91; No. Adams, 29.85; Gloucester, 23.90; Quincy, 7.99; Waltham, 16.50; Brookline, 9.20; Pittsfield, 20.72; Chicopee, 27.20; Medford, 22.33; Northampton, ——; Beverly, 10.20; Clinton, 10.29; Leominster, ——; Newburyport, 3.59; Woburn, 32.72; Hyde Park, 29.35; Adams, ——; Attleborough, ——; Marlborough, 26.40; Melrose, 7.54; Westfield, 27.16; Milford, ——; Revere, 12.28; Framingham, 24.96; Peabody, ——; Gardner, ——; Weymouth, 22.92; Southbridge, ——; Watertown, 14.05; Plymouth, ——.

The total death rate for the week was 20.39, as compared with 18.47 and 17.88 for the previous two weeks.

Cases of Infectious Diseases reported to the State Board of Health during the Week ending Mar. 14, 1903.

(Under the Provisions of section 52 of chapter 75, of the Revised Laws of Massachusetts.)

Scarlet fever,	141	Typhoid fever,	25
Diphtheria and croup,	112	Measles,	293
Small-pox,	7		

(SIGNED) S. W. ABBOTT, M.D.,
Secretary of the State Board of Health.

The Meteorological Record for the Week, in Boston, was as follows:

DATE.	BAROM-ETER.	THER-MOMETER.			RELATIVE HUMIDITY.			DIRECTION OF WIND.		VELOCITY OF WIND.			STATE OF WEATHER.*			RAIN-FALL.	
Week ending Saturday, Mar. 14, 1903.	MEAN.	MEAN.	MAXIMUM.	MINIMUM.	8 A.M.	8 P.M.	MEAN.	8 A.M.	8 P.M.	8 A.M.	8 P.M.		8 A.M.	8 P.M.		DURATION.	AMOUNT IN INCHES.
Sunday, 8,	30.24	46	54	39	87	97	92	S.	S. W.	18	15		R.	R.			0.42
Monday, 9,	30.44	46	54	38	96	100	98	N. E.	N. E.	18	19		R.	R.			1.03
Tuesday, 10,	30.48	39	42	36	96	98	97	N.	E.	14	4		O.	O.			0.12
Wednesday, 11,	30.22	47	54	40	94	91	92	S. W.	N. W.	20	11		R.	C.			0.47
Thursday, 12,	30.28	44	50	39	87	74	80	N.	S.	8	10		C.	C.			0.00
Friday, 13,	30.20	50	63	38	88	78	83	W.	E.	7	2		C.	C.			0.00
Saturday, 14,	30.18	50	61	40	81	72	76	W.	S. W.	4	9		C.	C.			0.00
Week,	30.29		54	38			88										2.04

* O. = Cloudy; C. = Clear; F. = Fair; G. = Fog; H. = Hazy; S. = Smoky; R. = Rain; T. = Threatening; N. = Snow.

INSPECTION OF FOOD AND DRUGS.

The following summary presents the results of the examinations of Food and Drugs by the State Board of Health in the month of February, 1903: —

ARTICLES EXAMINED.	Number found to be of good quality.	Number adulterated or varying from the legal standard.	TOTAL.	ARTICLES EXAMINED.	Number found to be of good quality.	Number adulterated or varying from the legal standard.	TOTAL.
Milk, . . .	233	283	516	Maple Syrup, .	2	1	3
Butter, . . .	13	1	14	Canned Goods, .	2	1	3
Cheese, . . .	8	2	10	Honey, . . .	1	2	3
Lard, . . .	3	6	9	Tea, . . .	1	..	1
Olive Oil, . . .	..	..	..	Coffee, . . .	13	..	13
Vinegar, . . .	..	2	2	Cocoa and Chocolate,	4	3	7
Spices, . . .	126	13	139	Lemon Extract, .	..	1	1
Cream of Tartar, .	31	..	31	Vanilla Extract,	2	..	2
Molasses, . . .	..	..	..	Jamaica Ginger, .	4	1	5
Syrups, . . .	..	..	..	Miscellaneous, .	10	5	15
Maple Sugar, . .	..	..	..	Drugs, . . .	47	35	82
				Totals, . .	500	356	856

Percentage of adulteration, 41.6. The actual ratio of adulteration is very much less than this, since it is only suspicious articles of food to which the attention of the Board is directed. Certain staple products, such as sugar, flour, and the various other cereal products, are very rarely adulterated and require but little inspection. The work of the Board is therefore mainly devoted to the inspection of such articles as it has found, by several years of experience, to be especially liable to adulteration.

The ratio of samples of milk found to be below the standard was 54.9 per cent., while the percentage of articles of food was 14.7 per cent.

Three complaints were entered in the courts during the month for violation of the laws relative to the inspection of food and drugs.

The samples of drugs found to be adulterated were Alcohol, Aqua Destillata, Cera Alba, Cera Flava, Ferri et Quininæ Citras, Oleum Olivæ, Sulphur Præcipitatum and Tinctura Iodi.

Cities and towns from which samples of food were collected were Boston, Cambridge, Springfield, Somerville, Holyoke, Haverhill, Newton, Gloucester, Waltham, Natick, Arlington, Amherst, Watertown, Braintree, Chelsea, Malden, Lowell, Salem, Lawrence, Woburn, Winchester, Newburyport, Amesbury, Medford, Hyde Park, Winthrop, Worcester, Westborough, Fall River, Needham, Brookline, Taunton, Attleborough and Fitchburg.

RECORD OF PROSECUTIONS IN FEBRUARY, 1903.

No.	Date of Trial.	Name of Defendant.	Place.	Character of Articles Sold.	Result of Trial.
1	January 22,	Nap. Laliberte,	Haverhill,	Milk,	Conviction.
2	February 3,	John Casey,	Spencer,	Milk,	Conviction.*
3	February 5,	Michael O'Keefe,	Chelsea,	Mustard,	Discharged.

* After an appeal from a lower court. (See note.)

Note. — The total solids in samples of milk upon which the foregoing cases were entered were as follows : 10.73 and 4.10. This last sample obtained of John Casey was adulterated to a greater degree than any sample ever found in the experience of the Board.

Total amount of fines, $25.00.

Commonwealth of Massachusetts.—State Board of Health.

Publication of Results of Analyses of Certain Articles of Food, required by Chapter 272, of the Acts of 1902. For the Month of February, 1903.

Number of Sample.	Date of Collection.	City or Town where Purchased.	Character of Sample.	Brand or Name of Manufacturer, Wholesaler or Producer.	Results of Analyses.
9506J	January 31.	Boston.	Honey.	"Pure California," with Granulated Sugar to prevent Crystalization.	32 per cent. cane sugar. Formula not in accordance with law.
6151L	February 13.	Natick.	Honey.	Wild Rose Finest California San Diego Honey Co., San Francisco, Cal.	Admixture of glucose and cane sugar.
46199	January 22.	Ware.	"Currant Flavored Jelly."	Lutz & Schramm Co., Allegheny, Pa.	Colored to conceal its inferior condition.
9256J	January 15.	Boston.	Raspberry Jam.	Eagle Brand, Anderson Preserving Co., Camden, N. J.	Glucose greatly in excess of amount specified on formula.
4647L	November 22.	No. Adams.	Apricot Jam.	Burns' Fresh Fruit Jam, Ayer Preserving Co., Ayer, Mass.	Treated with coloring matter and preservatives. Formula concealed.
4649L	November 22.	No. Adams.	Damson Jam.	Burns' Fresh Fruit Jam, Ayer Preserving Co., Ayer, Mass.	Treated with coloring matter and preservatives. Formula concealed.
46565	February 26.	Medford.	Cheese.	Manhattan Club, Manhattan Dairy Co., Boston.	Preserved with boric acid.
46487	February 20.	Boston.	Cheese.	Neuchâtel Cream, Sheaf Brand.	A skim milk cheese. (Neither Neuchâtel nor cream.)
46412	February 16.	Haverhill.	Canned Peas.	"Petit Pois, Extra Fins, Artificially Colored" Guilliamey Fils.	Color not specified. Colored with .0146 gms. copper per can.
9650J	February 7.	Boston.	Breakfast Cocoa.	Cream Chocolate Co., Chelsea.	Formula: "25 per cent. cereals." No cereals, but largely cocoa shells.
46445	February 18.	Lawrence.	Mustard.	Pure Sovereign, Union Pacific Tea Co.	Admixture of starch.
5987L	February 5.	Cambridge.	Pepper.	M. O'Keeffe, Boston.	Excess of pepper shells.
6223L	February 20.	Boston.	Mace.	Hatchet Brand, Twitchell Champlin Co., Boston.	Admixture of wild mace.
46449	February 18.	Lawrence.	Lemon Extract.	Pure Sovereign, Union Pacific Tea Co.	Only 0.5 per cent. lemon oil. Dilute alcohol used.
46499	February 21.	Somerville.	Extract Jamaica Ginger.	Walker Chemical and Extract Co., Chelsea.	No formula. Trace only of ginger oil and dilute alcohol used.
0648 *	March 13.	Boston.	St. Ann's Remedy.	Name of maker unknown.	Nearly 2 grains of caffeine and 1 grain of morphine to each fluid ounce.

* No. 0648. This extremely dangerous and fraudulent article is a so-called remedy for the opium habit, by which the user becomes still more a victim of the habit than before.

Weekly Bulletin

OF THE

STATE BOARD OF HEALTH

OF

MASSACHUSETTS

FOR THE

Week ending Saturday, Mar. 21, 1903.

An official publication of the State Board of Health of Massachusetts, published weekly at the office of the Board, State House, Boston, Mass.

VOL. XXI. No. 12.

Entered at the post-office at Boston as second-class matter.

This publication contains the returns of deaths made each week to the State Board of Health from cities and towns in Massachusetts having over 10,000 inhabitants in each.

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Once in each month the work done under the Food and Drug Acts is also reported in this bulletin.

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SAMUEL W. ABBOTT, M.D., *Secretary.*

MORTALITY OF MASSACHUSETTS

For the Week ending Mar. 21, 1903.

Deaths reported to the State Board of Health in 41 Cities and Greater Towns.

The number of deaths *reported* each week does not exactly correspond with the number which *occurred* during that week, but the discrepancy is a slight one in most cases. The mortality report is published weekly, and contains the returns from such cities and towns having a population of more than 10,000 inhabitants as have sent to the office of the State Board of Health the death returns of the previous week.

We shall esteem it a great favor if all reporting towns will send us their returns weekly, as heretofore, upon postal cards provided for the purpose. A supply of these cards will be sent to any town clerk or health officer who has charge of such returns and is willing to comply with this request.

CITIES AND TOWNS.	*Population. Estimated for 1903.	Reported Deaths in Each.	Deaths under Five Years.	Deaths from					
				Principal Infectious Diseases.	Acute Lung Diseases.	Phthisis.	Diphtheria and Croup.	Whooping-cough.	Scarlet Fever.
Boston,	603,163	225	64	44	52	25	5	5	..
Worcester,	132,044	35	10	3	4	2	..	..	..
Fall River,	115,549	44	22	13	11	5	..	..	2
Lowell,	101,959	39	7	4	9	4	..	..	..
Cambridge,	98,639	41	12	5	11	5	..	..	..
Lynn,	72,497	21	4	1	..	..	..	..	1
Lawrence,	69,766	23	10	3	3	3	..	..	..
Springfield,	69,389	33	6	4	8	4	..	..	..
Somerville,	68,110	28	9	5	7	2	1	1	..
New Bedford,	67,198	36	13	9	6	3	1	..	4
Holyoke,	49,286	12	4	3	2	1	1	..	..
Brockton,	44,873	9	5	1	1	..	..	1	..
Haverhill,	42,104	6	1	1	..	1	..	..	..
Newton,	37,794	14	2	2	3	2	..	..	..
Salem,	36,876	18	5	4	..	..	2	1	..
Malden,	36,286	14	1	..	1	..	..	..	..
Chelsea,	35,876	9	3	..	2	..	..	..	..
Fitchburg,	35,069	8	3	1	..	1	..	..	..
Taunton,	33,656	10	..	2	2	1	..	..	..
Everett,	28,620	11	1	1	..	1	..	..	..
North Adams,	27,862	5	2	1	1	..	..	..	..
Gloucester,	26,121	7	2	3	..	1	2	..	..
Quincy,	26,042	12	..	1	1	..	..	1	..
Waltham,	25,198	13	4	2	..	1	1	..	..
Brookline,	22,608	..	..	..	..	..	..	..	..
Pittsfield,	22,589	5	..	1	..	1	..	..	..
Chicopee,	21,031	8	3	1	1	1	..	..	..
Medford,	20,962	7	..	..	3	..	..	..	..
Northampton,	19,883	5	0	..	..	..	..	..	..
Beverly,	15,302	6	1	1	1	1	..	..	..
Clinton,	15,161	5	..	..	..	..	..	..	..
Leominster,	14,806	..	..	..	..	..	..	..	..
Newburyport,	14,478	3	..	..	1	..	..	..	..
Woburn,	14,300	8	1	1	2	1	..	..	..
Hyde Park,	14,175	5	1	1	1	..	..	..	1
Marlborough,	13,609	5	3	2	1	1	..	..	..
Melrose,	13,600	3	1	1	1	1	..	..	..
Westfield,	13,418	3	1	..	2	..	..	..	..
Revere,	12,722	5	3	2	..	..	1	1	..
Framingham,	12,534	2	..	..	1	..	..	..	..
Gardner,	11,928	..	..	..	..	..	..	..	..
Weymouth,	11,344	4	0	1	1	..	..	..	..
Southbridge,	11,268	3	1	..	1	..	..	..	..
Watertown,	11,077	2	..	..	1	..	..	..	..

RECAPITULATION.

	Population.	Deaths.	Deaths under Five.	Infectious Diseases.	Acute Lung Diseases.	Phthisis.	Diphtheria and Croup.	Whooping-cough.	Scarlet Fever.
Total of reporting towns,	2,141,430	752	205	124	141	68	14	10	8

Note.—*The populations of the Massachusetts cities were estimated upon the rate of growth from 1895 to 1900, since the State had an intermediate census in 1895. The populations of Gloucester, Marlborough and Newburyport were allowed to stand as in 1900, they having suffered a slight decrease during the five-year period.

Deaths from Prevalent Diseases in 41 Cities and Larger Towns of Massachusetts.

One hundred and twenty-four deaths were reported from the principal infectious diseases: measles, 4; scarlet fever, 8; cerebro-spinal meningitis, 4; diphtheria and croup, 14; whooping-cough, 10; typhoid fever, 4; diarrhœal diseases, 8; erysipelas, 1; influenza, 2; puerperal fever, 1.

No deaths were reported from malarial fever or small-pox.

There were 68 deaths from consumption, acute lung diseases, 141, still-births, 45.

From measles: Boston, Worcester, Holyoke and Salem, 1 each. From scarlet fever: New Bedford, 4; Fall River, 2; Lynn and Hyde Park, 1 each. From typhoid fever: Boston, 1; Fall River, 2; Somerville, 1. From erysipelas: Boston, 1. From whooping-cough: Boston, 5; Somerville, Brockton, Salem, Quincy and Revere, 1 each.

Deaths under five years of age numbered 205, as compared with 225 for the preceding week.

Deaths from the principal infectious diseases numbered 124, as compared with 145 for the preceding week.

The death rates for the week were: Boston, 19.40; Worcester, 13.78; Fall River, 19.80; Lowell, 19.89; Cambridge, 21.61; Lynn, 15.06; Lawrence, 17.14; Springfield, 24.72; Somerville, 21.37; New Bedford, 27.86; Holyoke, 12.66; Brockton, 10.43; Haverhill, 7.41; Newton, 19.25; Salem, 25.38; Malden, 20.06; Chelsea, 13.05; Fitchburg, 11.86; Taunton, 15.45; Everett, 20.00; No. Adams, 9.33; Gloucester, 13.94; Quincy, 23.96; Waltham, 26.82; Brookline, ——; Pittsfield, 11.51; Chicopee, 19.78; Medford, 17.37; Northampton, 13.06; Beverly, 20.39; Clinton, 17.15; Leominster, ——; Newburyport, 10.77; Woburn, 7.27; Hyde Park, 18.34; Adams, ——; Attleborough, ——; Marlborough, 18.85; Melrose, 11.31; Westfield, 11.64; Milford, ——; Revere, 20.47; Framingham, 8.33; Peabody, ——; Gardner, ——; Weymouth, 18.34; Southbridge, 13.84; Watertown, 9.37; Plymouth, ——.

The total death rate for the week was 18.26, as compared with 20.39 and 18.47 for the previous two weeks.

Cases of Infectious Diseases reported to the State Board of Health during the Week ending Mar. 21, 1903.

(Under the Provisions of section 52 of chapter 75, of the Revised Laws of Massachusetts.)

Scarlet fever,	144	Typhoid fever,	37
Diphtheria and croup,	105	Measles,	294
Small-pox,	11		

(SIGNED) **S. W. ABBOTT, M.D.,**
Secretary of the State Board of Health.

The Meteorological Record for the Week, in Boston, was as follows:

DATE.	BAROM-ETER.	THER-MOMETER.			RELATIVE HUMIDITY.			DIRECTION OF WIND.		VELOCITY OF WIND.			STATE OF WEATHER.*			RAIN-FALL.	
Week ending Saturday, Mar. 21, 1903.	MEAN.	MEAN.	MAXIMUM.	MINIMUM.	8 A.M.	8 P.M.	MEAN.	8 A.M.	8 P.M.	8 A.M.	8 P.M.		8 A.M.	8 P.M.		DURATION.	AMOUNT IN INCHES.
Sunday, 15,	30.40	44	52	35	70	81	76	N.E.	E.	13	11		O.	C.			0.00
Monday, 16,	30.51	37	39	35	90	91	90	E.	S.E.	12	4		R.	O.			T
Tuesday, 17,	30.21	48	59	38	88	80	84	S.W.	N.	4	4		O.	C.			0.00
Wednesday, 18,	30.48	42	45	38	85	92	88	N.E.	S.E.	9	8		O.	O.			0.00
Thursday, 19,	30.31	56	72	40	85	62	74	S.W.	S.W.	10	13		C.	C.			0.00
Friday, 20,	30.13	60	76	43	82	82	82	S.W.	S.W.	14	13		C.	C.			0.00
Saturday, 21,	30.12	50	60	39	94	96	95	N.E.	E.	7	8		O.	R.			0.33
Week,	30.31		58	38			84										0.33

* O. = Cloudy; C. = Clear; F. = Fair; G. = Fog; H. = Hazy; S. = Smoky; R. = Rain; T. = Threatening; N. = Snow.

Weekly Bulletin

OF THE

STATE BOARD OF HEALTH

OF

MASSACHUSETTS

FOR THE

Week ending Saturday, Mar. 28, 1903.

An official publication of the State Board of Health of Massachusetts, published weekly at the office of the Board, State House, Boston, Mass.

VOL. XXI. No. 13.

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Once in each month the work done under the Food and Drug Acts is also reported in this bulletin.

STATE BOARD OF HEALTH.

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MORTALITY OF MASSACHUSETTS

For the Week ending Mar. 28, 1903.

Deaths reported to the State Board of Health in 39 Cities and Greater Towns.

The number of deaths *reported* each week does not exactly correspond with the number which *occurred* during that week, but the discrepancy is a slight one in most cases. The mortality report is published weekly, and contains the returns from such cities and towns having a population of more than 10,000 inhabitants as have sent to the office of the State Board of Health the death returns of the previous week.

We shall esteem it a great favor if all reporting towns will send us their returns weekly, as heretofore, upon postal cards provided for the purpose. A supply of these cards will be sent to any town clerk or health officer who has charge of such returns and is willing to comply with this request.

CITIES AND TOWNS.	*Population. Estimated for 1903.	Reported Deaths in Each.	Deaths under Five Years.	Deaths from					
				Principal Infectious Diseases.	Acute Lung Diseases.	Phthisis.	Diphtheria and Croup.	Whooping-cough.	Scarlet Fever.
Boston,	603,163	201	55	43	44	25	2	5	2
Worcester,	132,044	22	..	6	6	5	..	..	..
Fall River,	115,549	38	14	8	14	8	..	..	..
Lowell,	101,959	34	10	2	7	2	..	..	..
Cambridge,	98,639	24	3	1	4	1	..	..	..
Lynn,	72,497	16	1	1	..	1	..	..	..
Lawrence,	69,766	26	11	13	5	7	..	..	..
Springfield,	69,389	15	3	2	2	1	1	..	..
Somerville,	68,110	23	2	4	6	2	1	..	..
New Bedford,	67,198	30	16	7	5	..	1	..	5
Holyoke,	49,286	..	..	..	..	..	..	..	..
Brockton,	44,873	15	3	2	..	1	..	..	..
Haverhill,	42,104	11	3	1	2	1	..	..	..
Newton,	37,794	13	1	..	3	..	..	..	..
Salem,	36,876	11	2	1	2	1	..	..	..
Malden,	36,286	5	4	..	1	..	..	..	..
Chelsea,	35,876	9	5	4	2	3	..	1	..
Fitchburg,	35,069	..	..	..	..	..	..	..	..
Taunton,	33,656	9	2	1	2	1	..	..	..
Everett,	28,620	9	2	2	..	1	..	1	..
North Adams,	27,862	8	4	1	2	1	..	..	..
Gloucester,	26,121	8	1	3	..	1	2	..	..
Quincy,	26,042	7	1	..	..	..	..	..	..
Waltham,	25,198	6	1	2	..	1	..	..	..
Brookline,	22,608	7	1	..	..	..	..	..	..
Pittsfield,	22,589	6	4	..	..	..	..	..	..
Chicopee,	21,031	6	4	..	1	..	..	..	..
Medford,	20,962	6	2	1	1	..	..	..	..
Northampton,	19,883	..	..	..	..	..	..	..	..
Beverly,	15,302	2	..	1	..	1	..	..	..
Clinton,	15,161	3	..	..	..	..	..	..	..
Leominster,	14,806	..	..	..	..	..	..	..	..
Newburyport,	14,478	8	0	..	..	..	..	..	..
Woburn,	14,300	5	2	..	1	..	..	..	..
Hyde Park,	14,175	..	..	..	..	..	..	..	..
Marlborough,	13,609	8	1	3	3	1	..	..	..
Melrose,	13,600	5	..	1	..	1	..	..	..
Westfield,	13,418	4	1	1	..	..	..	1	..
Revere,	12,722	3	..	..	..	..	..	..	..
Framingham,	12,534	7	..	1	1	..	..	1	..
Gardner,	11,928	9	..	1	5	..	..	..	..
Weymouth,	11,344	3	..	..	..	..	..	..	..
Southbridge,	11,268	2	1	..	1	..	..	..	..
Watertown,	11,077	3	2	..	..	..	..	..	..

RECAPITULATION.

	Population.	Deaths.	Deaths under Five.	Infectious Diseases.	Acute Lung Diseases.	Phthisis.	Diphtheria and Croup.	Whooping-cough.	Scarlet Fever.
Total of reporting towns,	2,057,553	627	162	113	120	66	7	9	7

Note.—*The populations of the Massachusetts cities were estimated upon the rate of growth from 1895 to 1900, since the State had an intermediate census in 1895. The populations of Gloucester, Marlborough and Newburyport were allowed to stand as in 1900, they having suffered a slight decrease during the five-year period.

Deaths from Prevalent Diseases in 39 Cities and Larger Towns of Massachusetts.

One hundred and thirteen deaths were reported from the principal infectious diseases: measles, 4; scarlet fever, 7; cerebro-spinal meningitis, 6; diphtheria and croup, 7; whooping-cough, 9; typhoid fever, 4; diarrhœal diseases, 6; erysipelas, 3; influenza, 1.

No deaths were reported from malarial fever, puerperal fever or small-pox.

There were 66 deaths from consumption, acute lung diseases, 120, still-births, 31.

From measles: Boston, 3; Lawrence, 1. From scarlet fever: Boston, 2; New Bedford, 5. From typhoid fever: Boston, Lawrence, New Bedford and Waltham, 1 each. From erysipelas: Boston, Worcester and Lawrence, 1 each. From whooping-cough: Boston, 5; Chelsea, Everett, Westfield and Framingham, 1 each. From diphtheria and croup: Boston, 2; New Bedford, Springfield and Somerville, 1 each; Gloucester, 2.

Deaths under five years of age numbered 162, as compared with 205 for the preceding week.

Deaths from the principal infectious diseases numbered 113, as compared with 124 for the preceding week.

The death rates for the week were: Boston, 17.32; Worcester, 8.66; Fall River, 17.10; Lowell, 17.34; Cambridge, 12.65; Lynn, 11.47; Lawrence, 19.37; Springfield, 11.24; Somerville, 17.56; New Bedford, 23.21; Holyoke, ——; Brockton, 17.38; Haverhill, 13.58; Newton, 17.87; Salem, 15.51; Malden, 7.16; Chelsea, 13.05; Fitchburg, ——; Taunton, 13.90; Everett, 16.36; No. Adams, 14.93; Gloucester, ——; Quincy, 13.68; Waltham, 12.50; Brookline, 16.10; Pittsfield, 13.80; Chicopee, 14.84; Medford, 14.86; Northampton, ——; Beverly, 6.80; Clinton, 10.29; Leominster, ——; Newburyport, 28.73; Woburn, 18.18; Hyde Park, ——; Adams, ——; Attleborough, ——; Marlborough, 30.17; Melrose, 18.85; Westfield, 15.52; Milford, ——; Revere, 12.28; Framingham, 29.12; Peabody, ——; Gardner, 39.32; Weymouth, 13.75; Southbridge, 9.23; Watertown, 14.05; Plymouth, ——.

The total death rate for the week was 15.84, as compared with 18.26 and 20.39 for the previous two weeks.

Cases of Infectious Diseases reported to the State Board of Health during the Week ending Mar. 28, 1903.

(Under the Provisions of section 52 of chapter 75, of the Revised Laws of Massachusetts.)

Scarlet fever, ...	130	Typhoid fever, ...	20
Diphtheria and croup, ...	105	Measles, ...	337
Small-pox, ...	18		

(SIGNED) **S. W. ABBOTT, M.D.,**
Secretary of the State Board of Health.

The Meteorological Record for the Week, in Boston, was as follows:

DATE.	BAROM-ETER.	THER-MOMETER.			RELATIVE HUMIDITY.			DIRECTION OF WIND.		VELOCITY OF WIND.			STATE OF WEATHER.*			RAIN-FALL.	
Week ending Saturday, Mar. 28, 1903.	MEAN.	MEAN.	MAXIMUM.	MINIMUM.	8 A.M.	8 P.M.		MEAN.	8 A.M.	8 P.M.	8 A.M.	8 P.M.		8 A.M.	8 P.M.		DURATION.	AMOUNT IN INCHES.
Sunday, . . 22,	30.21	52	60	45	100	89		94	N.	S. E.	12	6		R.	O.			0.49
Monday, . . 23,	30.10	46	53	40	100	96		98	N. E.	N.	24	5		R.	R.			1.22
Tuesday, . . 24,	29.94	48	53	42	96	100		98	N. E.	N. E.	4	8		O.	R.			0.12
Wednesday, . 25,	29.86	44	50	37	64	69		66	N. W.	W.	7	23		C.	C.			T
Thursday, . . 26,	30.04	44	54	34	57	41		49	W.	W.	15	9		C.	C.			0.00
Friday, . . 27,	29.98	55	66	44	48	55		52	S. W.	W.	10	9		C.	F.			0.00
Saturday, . . 28,	30.10	35	42	28	85	97		91	E.	N.	10	9		O.	N.			0.02
Week, . . .	30.03		54	39				78										1.85

* O. = Cloudy; C. = Clear; F. = Fair; G. = Fog; H. = Hazy; S. = Smoky; R. = Rain; T. = Threatening; N. = Snow.

Weekly Bulletin

OF THE

STATE BOARD OF HEALTH

OF

MASSACHUSETTS

FOR THE

Week ending Saturday, April 4, 1903.

An official publication of the State Board of Health of Massachusetts, published weekly at the office of the Board, State House, Boston, Mass.

VOL. XXI. No. 14.

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MORTALITY OF MASSACHUSETTS

For the Week ending April 4, 1903.

Deaths reported to the State Board of Health in 39 Cities and Greater Towns.

The number of deaths *reported* each week does not exactly correspond with the number which *occurred* during that week, but the discrepancy is a slight one in most cases. The mortality report is published weekly, and contains the returns from such cities and towns having a population of more than 10,000 inhabitants as have sent to the office of the State Board of Health the death returns of the previous week.

We shall esteem it a great favor if all reporting towns will send us their returns weekly, as heretofore, upon postal cards provided for the purpose. A supply of these cards will be sent to any town clerk or health officer who has charge of such returns and is willing to comply with this request.

CITIES AND TOWNS.	*Population. Estimated for 1903.	Reported Deaths in Each.	Deaths under Five Years.	Deaths from					
				Principal Infectious Diseases.	Acute Lung Diseases.	Phthisis.	Diphtheria and Croup.	Whooping-cough.	Measles.
Boston,	603,163	214	56	45	34	24	3	8	1
Worcester,	132,044	47	15	8	13	3	..	..	..
Fall River,	115,549	34	15	9	8	6	1	..	..
Lowell,	101,959	41	17	6	5	3	2	..	..
Cambridge,	98,639	27	9	4	6	2	..	1	..
Lynn,	72,497	18	..	2	..	1	..	1	..
Lawrence,	69,766	17	7	9	2	2	2	..	2
Springfield,	69,389	36	14	7	6	3	1	2	1
Somerville,	68,110	24	7	5	4	1	1	..	..
New Bedford,	67,198	28	13	7	6	3	..	1	..
Holyoke,	49,286	12	3	1	1	1	..	..	..
Brockton,	44,873	13	4	1	..	..	..	..	..
Haverhill,	42,104	14	5	2	5	1	..	1	..
Newton,	37,794	11	1	..	2	..	..	..	..
Salem,	36,876	12	4	3	3	..	..	2	..
Malden,	36,286	11	3	2	2	1	..	1	..
Chelsea,	35,876	16	5	1	5	1	..	..	..
Fitchburg,	35,069	16	9	5	3	..	1	2	2
Taunton,	33,656	19	3	3	..	2	..	1	..
Everett,	28,620	7	3	1	..	1	..	..	..
North Adams,	27,862	10	2	3	2	2	..	..	..
Gloucester,	26,121	10	1	2	..	1	..	..	..
Quincy,	26,042	7	5	2	..	..	..	1	..
Waltham,	25,198	6	..	1	1	1	..	..	..
Brookline,	22,608	6	..	1	1	..	1	..	..
Pittsfield,	22,589	6	2	1	..	1	..	..	..
Chicopee,	21,031	8	5	1	4	..	1	..	..
Medford,	20,962	3	1	..	1	..	..	..	..
Northampton,	19,883	..	..	..	..	..	..	..	..
Beverly,	15,302	5	..	..	..	..	..	..	..
Clinton,	15,161	7	..	2	..	2	..	..	..
Leominster,	14,806	..	..	..	..	..	..	..	..
Newburyport,	14,478	7	2	1	..	..	..	..	..
Woburn,	14,300	2	..	..	1	..	..	..	..
Hyde Park,	14,175	..	..	..	..	..	..	..	..
Marlborough,	13,609	1	0	..	..	..	..	..	..
Melrose,	13,600	..	..	..	..	..	..	..	..
Westfield,	13,418	5	1	..	2	..	..	..	..
Revere,	12,722	2	..	1	..	1	..	..	..
Framingham,	12,534	3	2	2	..	..	..	2	..
Gardner,	11,928	..	..	..	..	..	..	..	..
Weymouth,	11,344	1	..	..	1	..	..	..	..
Southbridge,	11,268	1	..	..	..	..	..	..	..
Watertown,	11,077	4	2	..	..	..	..	..	..

RECAPITULATION.

	Population.	Deaths.	Deaths under Five.	Infectious Diseases.	Acute Lung Diseases.	Phthisis.	Diphtheria and Croup.	Whooping-cough.	Measles.
Total of reporting towns,	2,116,380	711	216	138	118	63	13	23	6

Note.—*The populations of the Massachusetts cities were estimated upon the rate of growth from 1895 to 1900, since the State had an intermediate census in 1895. The populations of Gloucester, Marlborough and Newburyport were allowed to stand as in 1900, they having suffered a slight decrease during the five-year period.

Deaths from Prevalent Diseases in 39 Cities and Larger Towns of Massachusetts.

One hundred and thirty-eight deaths were reported from the principal infectious diseases: measles, 6; scarlet fever, 5; cerebro-spinal meningitis, 10; diphtheria and croup, 13; whooping-cough, 23; typhoid fever, 5; diarrhœal diseases, 8; erysipelas, 2; influenza, 2; small-pox, 1.

No deaths were reported from malarial fever or puerperal fever.

There were 63 deaths from consumption, acute lung diseases, 118, still-births, 33.

From measles: Boston, 1; Lawrence, 2; Springfield, 1; Fitchburg, 2. From scarlet fever: Fall River, 1; Lowell, 1; New Bedford, 3. From typhoid fever: Boston, 2; Lawrence, Salem and Gloucester, 1 each. From erysipelas: Worcester and Cambridge, 1 each. From cerebro-spinal meningitis: Boston, 3; Worcester, 4; Somerville, 2; Brockton, 1. From small-pox: Boston, 1.

Deaths under five years of age numbered 216, as compared with 162 for the preceding week.

Deaths from the principal infectious diseases numbered 138, as compared with 113 for the preceding week.

The death rates for the week were: Boston, 18.45; Worcester, 18.51; Fall River, 15.30; Lowell, 20.91; Cambridge, 14.23; Lynn, 12.91; Lawrence, 12.67; Springfield, 26.97; Somerville, 18.32; New Bedford, 21.66; Holyoke, 12.66; Brockton, 15.06; Haverhill, 17.29; Newton, 15.12; Salem, 16.92; Malden, 15.76; Chelsea, 23.20; Fitchburg, 23.73; Taunton, 29.35; Everett, 12.72; No. Adams, 18.66; Gloucester, 19.92; Quincy, 13.98; Waltham, 12.38; Brookline, 13.80; Pittsfield, 13.81; Chicopee, 19.78; Medford, 7.44; Northampton, ——; Beverly, 16.99; Clinton, 24.01; Leominster, ——; Newburyport, 25.14; Woburn, 7.27; Hyde Park, ——; Adams, ——; Attleborough, ——; Marlborough, 3.77; Melrose, ——; Westfield, 19.40; Milford, ——; Revere, 8.19; Framingham, 12.48; Peabody, ——; Gardner, ——; Weymouth, 4.58; Southbridge, 4.61; Watertown, 18.74; Plymouth, ——.

The total death rate for the week was 17.46, as compared with 15.84 and 18.26 for the previous two weeks.

Cases of Infectious Diseases reported to the State Board of Health during the Week ending April 4, 1903.

(Under the Provisions of section 52 of chapter 75, of the Revised Laws of Massachusetts.)

Scarlet fever, ...	112	Typhoid fever, ...	35
Diphtheria and croup, ...	111	Measles, ...	299
Small-pox, ...	8		

(SIGNED) **S. W. ABBOTT, M.D.,**
Secretary of the State Board of Health.

The Meteorological Record for the Week, in Boston, was as follows:

DATE.	BAROM-ETER.	THER-MOMETER.			RELATIVE HUMIDITY.			DIRECTION OF WIND.		VELOCITY OF WIND.			STATE OF WEATHER.*			RAIN-FALL.	
Week ending Saturday, April 4, 1903.	MEAN.	MEAN.	MAXIMUM.	MINIMUM.	8 A.M.	8 P.M.		MEAN.	8 A.M.	8 P.M.	8 A.M.	8 P.M.		8 A.M.	8 P.M.		DURATION.	AMOUNT IN INCHES.
Sunday, Mar. . 29,	30.52	35	42	28	78	56		67	N.	N. W.	17	6		C.	C.			0.03
Monday, . . 30,	30.24	38	43	32	58	92		75	S.	N. E.	7	15		O.	R.			0.04
Tuesday, . . 31,	29.54	47	55	39	98	71		84	N.	W.	13	8		R.	C.			1.47
Wednesday, April 1,	29.93	48	54	41	66	56		61	W.	N.	13	12		C.	C.			0.00
Thursday, . . 2,	30.14	46	57	36	83	72		78	E.	S. E.	5	15		F.	O.			0.00
Friday, . . 3,	29.56	57	65	49	86	86		86	S. W.	S. W.	29	22		T.	F.			0.18
Saturday, . . 4,	29.56	44	60	29	83	73		78	S.	N. W.	13	24		O.	O.			0.29
Week, . . .	29.93		54	36				76										2.01

* O. = Cloudy; C. = Clear; F. = Fair; G. = Fog; H. = Hazy; S. = Smoky; R. = Rain; T. = Threatening; N. = Snow.

Weekly Bulletin

OF THE

STATE BOARD OF HEALTH

OF

MASSACHUSETTS

FOR THE

Week ending Saturday, April 11, 1903.

An official publication of the State Board of Health of Massachusetts, published weekly at the office of the Board, State House, Boston, Mass.

VOL. XXI. No. 15.

Entered at the post-office at Boston as second-class matter.

This publication contains the returns of deaths made each week to the State Board of Health from cities and towns in Massachusetts having over 10,000 inhabitants in each.

It also contains the reports of cases of infectious diseases returned by the boards of health of cities and towns.

Once in each month the work done under the Food and Drug Acts is also reported in this bulletin.

STATE BOARD OF HEALTH.

HENRY P. WALCOTT, M.D., Cambridge, *Chairman.*
JULIAN A. MEAD, M.D., Watertown.
HIRAM F. MILLS, C.E., Lawrence.
GERARD C. TOBEY, Esq., Wareham.
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CHARLES H. PORTER, Quincy.
JOHN W. BARTOL, M.D., Boston.

SAMUEL W. ABBOTT, M.D., *Secretary.*

MORTALITY OF MASSACHUSETTS

For the Week ending April 11, 1903.

Deaths reported to the State Board of Health in 39 Cities and Greater Towns.

The number of deaths *reported* each week does not exactly correspond with the number which *occurred* during that week, but the discrepancy is a slight one in most cases. The mortality report is published weekly, and contains the returns from such cities and towns having a population of more than 10,000 inhabitants as have sent to the office of the State Board of Health the death returns of the previous week.

We shall esteem it a great favor if all reporting towns will send us their returns weekly, as heretofore, upon postal cards provided for the purpose. A supply of these cards will be sent to any town clerk or health officer who has charge of such returns and is willing to comply with this request.

CITIES AND TOWNS.	*Population. Estimated for 1903.	Reported Deaths in Each.	Deaths under Five Years.	Deaths from					
				Principal Infectious Diseases.	Acute Lung Diseases.	Phthisis.	Diphtheria and Croup.	Whooping-cough.	Measles.
Boston,	603,163	219	52	52	32	26	8	2	..
Worcester,	132,044	38	13	2	6	..	..	..	1
Fall River,	115,549	31	9	7	12	2	..	..	1
Lowell,	101,959	26	10	5	6	4	..	..	..
Cambridge,	98,639	27	3	5	6	4	..	..	..
Lynn,	72,497	19	9	1	..	..	..	1	..
Lawrence,	69,766	24	8	10	2	2	..	1	1
Springfield,	69,389	23	8	7	2	3	..	..	1
Somerville,	68,110	15	2	2	2	2	..	..	..
New Bedford,	67,198	26	10	5	6	2	..	..	..
Holyoke,	49,286	..	..	..	..	..	..	..	..
Brockton,	44,873	14	4	4	..	3	..	..	..
Haverhill,	42,104	12	2	4	1	4	..	..	..
Newton,	37,794	9	3	1	2	1	..	..	..
Salem,	36,876	11	3	..	..	..	..	..	..
Malden,	36,286	11	1	..	2	..	..	..	..
Chelsea,	35,876	15	1	3	..	3	..	..	..
Fitchburg,	35,069	10	3	..	3	..	..	..	..
Taunton,	33,656	11	4	3	1	2	..	..	..
Everett,	28,620	8	3	3	..	3	..	..	..
North Adams,	27,862	8	..	1	1	..	..	..	..
Gloucester,	26,121	11	1	2	..	..	1	..	..
Quincy,	26,042	13	5	3	..	1	..	1	..
Waltham,	25,198	5	3	2	..	1	1	..	..
Brookline,	22,608	6	2	1	..	..	..	1	..
Pittsfield,	22,589	11	3	3	1	3	..	..	..
Chicopee,	21,031	12	5	3	..	..	2	..	..
Medford,	20,962	2	..	..	1	..	..	..	..
Northampton,	19,883	4	1	..	..	..	..	..	..
Beverly,	15,302	7	5	1	1	..	..	..	1
Clinton,	15,161	3	..	..	..	..	..	..	..
Leominster,	14,806	..	..	..	..	..	..	..	..
Newburyport,	14,478	4	0	..	1	..	..	..	..
Woburn,	14,300	4	..	..	1	..	..	..	..
Hyde Park,	14,175	..	..	..	..	..	..	..	..
Marlborough,	13,609	4	2	1	1	..	..	..	..
Melrose,	13,600	5	2	1	..	..	..	1	..
Westfield,	13,418	2	..	..	..	..	..	..	..
Revere,	12,722	6	1	1	1	1	..	..	..
Framingham,	12,534	2	..	..	1	..	..	..	..
Gardner,	11,928	..	..	..	..	..	..	..	..
Weymouth,	11,344	4	..	..	2	..	..	..	..
Southbridge,	11,268	..	..	..	..	..	..	..	..
Watertown,	11,077	0	..	..	..	..	..	..	..

RECAPITULATION.

	Population.	Deaths.	Deaths under Five.	Infectious Diseases.	Acute Lung Diseases.	Phthisis.	Diphtheria and Croup.	Whooping-cough.	Measles.
Total of reporting towns,	2,089,309	662	178	133	94	67	12	7	5

Note.—*The populations of the Massachusetts cities were estimated upon the rate of growth from 1895 to 1900, since the State had an intermediate census in 1895. The populations of Gloucester, Marlborough and Newburyport were allowed to stand as in 1900, they having suffered a slight decrease during the five-year period.

Deaths from Prevalent Diseases in 39 Cities and Larger Towns of Massachusetts.

One hundred and thirty-three deaths were reported from the principal infectious diseases: measles, 5; scarlet fever, 7; cerebro-spinal meningitis, 6; diphtheria and croup, 12; whooping-cough, 7; typhoid fever, 7; diarrhœal diseases, 15; erysipelas, 4; influenza, 1; puerperal fever, 2.

No deaths were reported from malarial fever or small-pox.

There were 67 deaths from consumption, acute lung diseases, 94, still-births, 36.

From measles: Worcester, Fall River, Lawrence, Springfield and Beverly, 1 each. From scarlet fever: Boston, 3; New Bedford, 3; Chicopee, 1. From typhoid fever: Boston, 3; Lawrence, 2; Springfield and Quincy, 1 each. From erysipelas: Boston, 4. From cerebro-spinal meningitis: Worcester, Cambridge, Brockton, Taunton, Gloucester and Marlborough, 1 each.

Deaths under five years of age numbered 178, as compared with 216 for the preceding week.

Deaths from the principal infectious diseases numbered 133, as compared with 138 for the preceding week.

The death rates for the week were: Boston, 18.88; Worcester, 14.96; Fall River, 13.95; Lowell, 13.20; Cambridge, 14.23; Lynn, 13.62; Lawrence, 17.88; Springfield, 17.23; Somerville, 11.45; New Bedford, 20.12; Holyoke, ——; Brockton, 16.22; Haverhill, 14.82; Newton, 12.37; Salem, 15.51; Malden, 15.76; Chelsea, 21.75; Fitchburg, 14.83; Taunton, 17.00; Everett, 14.54; No. Adams, 14.93; Gloucester, 21.91; Quincy, 25.96; Waltham, 10.31; Brookline, 13.80; Pittsfield, 25.32; Chicopee, 29.67; Medford, 4.96; Northampton, 10.45; Beverly, 23.79; Clinton, 10.29; Leominster, ——; Newburyport, 14.36; Woburn, 14.54; Hyde Park, ——; Adams, ——; Attleborough, ——; Marlborough, 15.08; Melrose, 18.85; Westfield, 7.76; Milford, ——; Revere, 24.56; Framingham, 8.32; Peabody, ——; Gardner, ——; Weymouth, 18.34; Southbridge, ——; Watertown, ——; Plymouth, ——.

The total death rate for the week was 16.47, as compared with 17.46 and 15.84 for the previous two weeks.

Cases of Infectious Diseases reported to the State Board of Health during the Week ending April 11, 1903.

(Under the Provisions of section 52 of chapter 75, of the Revised Laws of Massachusetts.)

Scarlet fever, ...	127	Typhoid fever, ...	30
Diphtheria and croup, ...	92	Measles, ...	311
Small-pox, ...	26		

(SIGNED) **S. W. ABBOTT, M.D.,**
Secretary of the State Board of Health.

The Meteorological Record for the Week, in Boston, was as follows:

DATE.	BAROM-ETER.	THER-MOMETER.			RELATIVE HUMIDITY.			DIRECTION OF WIND.		VELOCITY OF WIND.			STATE OF WEATHER.*			RAIN-FALL.	
Week ending Saturday, April 11, 1903.	MEAN.	MEAN.	MAXIMUM.	MINIMUM.	8 A.M.	8 P.M.		MEAN.	8 A.M.	8 P.M.	8 A.M.	8 P.M.		8 A.M.	8 P.M.		DURATION.	AMOUNT IN INCHES.
Sunday, . . 5,	30.22	32	37	29	64	52		58	N. W.	N. W.	24	9		C.	C.			T
Monday, . . 6,	30.46	35	44	26	47	62		54	N. E.	S.	4	13		C.	O.			0.00
Tuesday, . . 7,	30.06	45	54	36	88	89		88	S. E.	S. W.	7	15		R.	O.			0.21
Wednesday, . 8,	29.82	49	55	43	88	96		92	S. W.	N.	3	11		R.	R.			1.01
Thursday, . . 9,	29.84	54	63	44	71	35		53	N. W.	W.	12	7		F.	O.			0.26
Friday, . . 10,	29.96	50	55	45	79	54		66	N.	N. W.	12	8		O.	C.			0.23
Saturday, . . 11,	30.10	48	55	42	46	55		52	N. W.	S. E.	14	4		C.	C.			0.00
Week, . . .	30.07		52	38				66										1.71

* O. = Cloudy; C. = Clear; F. = Fair; G. = Fog; H. = Hazy; S. = Smoky; R. = Rain; T. = Threatening; N. = Snow.

INSPECTION OF FOOD AND DRUGS.

The following summary presents the results of the examinations of Food and Drugs by the State Board of Health in the month of March, 1903: —

ARTICLES EXAMINED.	Number found to be of good quality.	Number adulterated or varying from the legal standard.	TOTAL.	ARTICLES EXAMINED.	Number found to be of good quality.	Number adulterated or varying from the legal standard.	TOTAL.
Milk, . . .	189	349	538	Maple Syrup, .	6	1	7
Butter, . . .	17	..	17	Condensed Milk, .	14	2	16
Cheese, . . .	4	5	9	Honey, . . .	3	4	7
Lard, . . .	..	..	..	Tea, . . .	8	..	8
Olive Oil, . . .	1	..	1	Coffee, . . .	9	..	9
Vinegar, . . .	4	4	8	Cocoa and Chocolate,	3	1	4
Spices, . . .	122	16	138	Confectionery, .	10	..	10
Cream of Tartar, .	24	1	25	Lemon Extract, .	..	4	4
Molasses, . . .	8	..	8	Vanilla Extract, .	1	..	1
Syrups, . . .	1	..	1	Miscellaneous, .	14	20	34
Maple Sugar, . .	4	..	4	Drugs, . . .	43	39	82
				Totals, . .	485	446	931

Percentage of adulteration, 47.9. The actual ratio of adulteration is very much less than this, since it is only suspicious articles of food to which the attention of the Board is directed. Certain staple products, such as sugar, flour, and the various other cereal products, are very rarely adulterated and require but little inspection. The work of the Board is therefore mainly devoted to the inspection of such articles as it has found, by several years of experience, to be especially liable to adulteration.

The ratio of samples of milk found to be below the standard was 64.9 per cent., while the percentage of articles of food was 18.7 per cent.

Among the miscellaneous samples are included, 25 samples of jelly and jam, of which 18 did not conform to Statutes. Two samples of "Cure for the opium habit," contained large quantities of Caffeine and Morphine.

The samples of drugs found to be adulterated were Aqua Ammonia Fort, Capsicum, Cera Flava, Oleum Limonis, Oleum Olivæ, Sulphur Lotum, Sulphur Præcipitatum and Tinctura Iodi.

Cities and towns from which samples of food were collected were Boston, Cambridge, Lawrence, Springfield, Somerville, Brockton, Haverhill, Newton, Newburyport, Marlborough, Watertown, Ware, Amherst, Ipswich, Dedham, Braintree, Revere, Stoughton, Worcester, Norwood, Chelsea, Winthrop, Lowell, Brookline, Holyoke, Attleborough, Taunton, Quincy, Everett, Charlemont, Greenfield, Malden and Medford.

Commonwealth of Massachusetts.—State Board of Health.

Publication of Results of Analyses of Certain Articles of Food, required by Chapter 272, of the Acts of 1902.

For the Month of March, 1903.

Number of Sample.	Date of Collection.	City or Town where Purchased.	Character of Sample.	Brand or Name of Manufacturer, Wholesaler or Producer.	Results of Analyses.
46090	January 9.	Fall River.	Condensed Milk.	Lion Brand.	Partially skimmed. Fat 6.60 per cent; Fat in original milk, 2.87 per cent.
6707 L			Honey.	White Clover Honey Extra Fine. Formula, 25 per cent. Extracted Honey, 75 per cent. Common Syrup.	84 per cent glucose syrup, and colored with a coal tar dye.
46767	March 18.	Somerville.	Maple Syrup.	Preferred Stock. Martin L. Hall Co., Boston, Mass.	Contains cane sugar other than maple.
704 K			Grape Juice.	Peter Draffone, 224 Pleasant St., Boston.	Sample was wine. Alcohol, 7.53 per cent.
46260	January 29.	Somerville.	Quince Jam.	Ideal Preserving Co., Boston, Mass.	Preserved with benzoic acid. Not in formula.
46261	January 29.	Somerville.	Strawberry Jam.	Ideal Preserving Co., Boston, Mass.	Preserved with benzoic acid. Not in formula.
46262	January 29.	Somerville.	Raspberry Jam.	Ideal Preserving Co., Boston, Mass.	Preserved with benzoic acid. Not in formula.
46263	January 29.	Somerville.	Pineapple Jam.	Ideal Preserving Co., Boston, Mass.	Preserved with benzoic acid. Not in formula.
46289	February 2.	Somerville.	Raspberry Jam.	Haskell, Adams & Co., Boston, Mass.	Preserved with benzoic acid. Not in formula.
5455 L	Dec. 30, 1902.	Boston.	Strawberry Jam.	Haskell, Adams & Co., Boston, Mass.	Preserved with benzoic acid. Not in formula.
6605 L	Mar. 10, 1903.	Boston.	Raspberry Jelly.	Renwick Brand, Renwick Preserving Co., New York.	Colored. No formula.
6607 L	March 10.	Boston.	Strawberry Jelly.	Renwick Brand, Renwick Preserving Co., New York.	Colored. No formula.
552 K			Strawberry Jam.	E. T. Cowdrey Co., Boston.	Colored. No formula.
46562	February 26.	Medford.	Red Currant Jelly.	E. T. Cowdrey Co., Boston.	Colored. No formula.
9324 J	January 19.	Worcester.	Red Raspberry Jam.	Williams Bros. & Charbonneau, Detroit, Mich.	Colored. No formula.
5453 L			Wild Strawberry Jam.	Star Brand.	Colored. Color not in formula.
46525	February 24.	Amesbury.	Wild Raspberry Jam.	Star Brand.	Colored. Color not in formula.
6855 L			Currant Jelly.	"Home made" Crystal Conserve Co., New York.	Colored. Color not in formula.
6857 L			Strawberry Jelly.	"Home made" Crystal Conserve Co., New York.	Colored. Color not in formula.
46563	February 26.	Medford.	Quince Jelly.	The Grocer's Preserving Co., 73 Commercial St., Boston.	Colored. No formula.
46564	February 26.	Medford.	Apple Jelly.	The Grocer's Preserving Co., 73 Commercial St., Boston.	Colored. No formula.
76619	March 3.	Chelsea.	Cocoa.	Imperial Breakfast, Crown Chocolate Co., Chelsea. Formula, 75 per cent. best varieties cocoa bean, 25 per cent. cereals.	Cereals as per label, cocoa largely shells.
198 K			Cloves.	Frank Stonestreet, East Boston.	Large excess of stems and sweepings.
6943 L			Cloves.	Great Atlantic & Pacific Tea Co., Springfield.	Excess of stems, ginger and sweepings.
200 K			Cassia.	Frank Stonestreet, East Boston.	Exhausted cassia.
46666	March 6.	Boston.	Mme. Ruppert's Face Bleach.	Mme. A. Ruppert, New York City.	Contains corrosive sublimate. No poison label.
46647	March 5.	Boston.	Soule's Moth and Freckle Lotion.	Mrs. C. A. Soule, Lynn.	Contains corrosive sublimate. No poison label.
46665	March 6.	Boston.	Diamond Lotion, Mrs. McCorrison's.	E. K. Guenthner, Waldoboro, Maine.	Contains corrosive sublimate. No poison label.
46669	March 7.	Boston.	Champlin's Liquid Pearl.	Champlin Manufacturing Co., New York City.	Contains a salt of lead. No poison label.
46779	March 17.	Boston.	Mary T. Goldman's Hair Restorer.	Mary T. Goldman, St. Paul, Minn.	A solution of silver nitrate. No poison label.
6865 L			"Bi-borax".	Alleged to be a mixture of borax and soda. L. Beling & Co., 410 W. 13th St., New York.	Contains no borax.

Weekly Bulletin

OF THE

STATE BOARD OF HEALTH

OF

MASSACHUSETTS

FOR THE

Week ending Saturday, April 18, 1903.

An official publication of the State Board of Health of Massachusetts, published weekly at the office of the Board, State House, Boston, Mass.

VOL. XXI. No. 16.

Entered at the post-office at Boston as second-class matter.

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SAMUEL W. ABBOTT, M.D., *Secretary.*

MORTALITY OF MASSACHUSETTS

For the Week ending April 18, 1903.

Deaths reported to the State Board of Health in 38 Cities and Greater Towns.

The number of deaths *reported* each week does not exactly correspond with the number which *occurred* during that week, but the discrepancy is a slight one in most cases. The mortality report is published weekly, and contains the returns from such cities and towns having a population of more than 10,000 inhabitants as have sent to the office of the State Board of Health the death returns of the previous week.

We shall esteem it a great favor if all reporting towns will send us their returns weekly, as heretofore, upon postal cards provided for the purpose. A supply of these cards will be sent to any town clerk or health officer who has charge of such returns and is willing to comply with this request.

CITIES AND TOWNS.	*Population. Estimated for 1903.	Reported Deaths in Each.	Deaths under Five Years.	Deaths from: Principal Infectious Diseases.	Acute Lung Diseases.	Phthisis.	Diphtheria and Croup.	Whooping-cough.	Scarlet Fever.
Boston,	603,163	220	61	49	41	22	6	4	1
Worcester,	132,044	34	13	7	7	3	..	..	..
Fall River,	115,549	..	..	..	..	..	..	..	..
Lowell,	101,959	39	10	4	6	3	1	..	..
Cambridge,	98,639	26	10	3	9	2	1	..	..
Lynn,	72,497	19	5	2	..	..	1	1	..
Lawrence,	69,766	22	8	7	4	1	..	1	..
Springfield,	69,389	25	6	3	4	1	..	2	..
Somerville,	68,110	27	3	3	2	3	..	..	..
New Bedford,	67,198	21	10	3	3	..	..	..	3
Holyoke,	49,286	22	8	2	4	2	..	..	..
Brockton,	44,873	8	2	4	..	2	..	1	1
Haverhill,	42,104	7	1	2	2	1	..	1	..
Newton,	37,794	4	2	..	..	..	..	..	..
Salem,	36,876	6	3	..	..	..	..	..	..
Malden,	36,286	10	2	..	2	..	..	..	..
Chelsea,	35,876	11	2	1	1	1	..	..	..
Fitchburg,	35,069	10	4	2	3	2	..	..	..
Taunton,	33,656	11	2	2	3	2	..	..	..
Everett,	28,620	4	..	3	..	3	..	..	..
North Adams,	27,862	9	4	3	1	1	..	..	1
Gloucester,	26,121	9	2	3	..	2	..	..	..
Quincy,	26,042	5	2	3	..	..	1	1	..
Waltham,	25,198	8	1	3	2	1	1	..	..
Brookline,	22,608	..	..	..	..	..	..	..	..
Pittsfield,	22,589	5	..	..	2	..	..	..	..
Chicopee,	21,031	19	9	10	3	1	..	1	6
Medford,	20,962	2	1	..	..	..	..	..	..
Northampton,	19,883	3	..	..	..	..	..	..	..
Beverly,	15,302	1	1	..	1	..	..	..	..
Clinton,	15,161	4	..	2	..	1	..	..	..
Leominster,	14,806	..	..	..	..	..	..	..	..
Newburyport,	14,478	7	1	1	2	..	..	..	..
Woburn,	14,300	1	1	..	..	..	..	..	..
Hyde Park,	14,175	..	..	..	..	..	..	..	..
Marlborough,	13,609	..	..	..	..	..	..	..	..
Melrose,	13,600	3	..	1	..	..	..	1	..
Westfield,	13,418	4	..	2	1	1	..	..	..
Revere,	12,722	3	1	1	2	1	..	..	..
Framingham,	12,534	2	1	..	..	..	..	..	..
Gardner,	11,928	5	..	..	..	..	..	..	..
Weymouth,	11,344	5	1	2	1	2	..	..	..
Southbridge,	11,268	..	..	..	..	..	..	..	..
Watertown,	11,077	2	..	..	..	..	..	..	..

RECAPITULATION.

	Population.	Deaths.	Deaths under Five.	Infectious Diseases.	Acute Lung Diseases.	Phthisis.	Diphtheria and Croup.	Whooping-cough.	Scarlet Fever.
Total of reporting towns,	1,998,757	623	177	128	106	58	11	13	12

Note.—*The populations of the Massachusetts cities were estimated upon the rate of growth from 1895 to 1900, since the State had an intermediate census in 1895. The populations of Gloucester, Marlborough and Newburyport were allowed to stand as in 1900, they having suffered a slight decrease during the five-year period.

Deaths from Prevalent Diseases in 38 Cities and Larger Towns of Massachusetts.

One hundred and twenty-eight deaths were reported from the principal infectious diseases: measles, 6; scarlet fever, 12; cerebro-spinal meningitis, 7; diphtheria and croup, 11; whooping-cough, 13; typhoid fever, 4; diarrhœal diseases, 11; erysipelas, 4; influenza, 2.

No deaths were reported from malarial fever, puerperal fever or small-pox.

There were 58 deaths from consumption, acute lung diseases, 106, still-births, 54.

From measles: Boston, 3; Chicopee, 2; Lawrence, 1. From scarlet fever: Boston, Brockton and North Adams, 1 each; New Bedford, 3; Chicopee, 6. From typhoid fever: Boston, Lawrence, Waltham and Clinton, 1 each. From erysipelas: Boston, 4. From cerebro-spinal meningitis: Boston and Worcester, 3 each; Gloucester, 1.

Deaths under five years of age numbered 177, as compared with 178 for the preceding week.

Deaths from the principal infectious diseases numbered 128, as compared with 133 for the preceding week.

The death rates for the week were: Boston, 18.97; Worcester, 13.39; Fall River, ——; Lowell, 19.89; Cambridge, 13.71; Lynn, 13.62; Lawrence, 13.69; Springfield, 18.73; Somerville, 20.61; New Bedford, 16.20; Holyoke, 23.21; Brockton, 9.27; Haverhill, 8.64; Newton, 5.50; Salem, 8.46; Malden, 14.30; Chelsea, 15.95; Fitchburg, 14.83; Taunton, 17.00; Everett, 7.27; No. Adams, 16.79; Gloucester, 17.93; Quincy, 9.98; Waltham, 16.50; Brookline, ——; Pittsfield, 11.51; Chicopee, 46.98; Medford, 4.96; Northampton, 7.84; Beverly, 3.39; Clinton, 13.72; Leominster, ——; Newburyport, 25.14; Woburn, 3.63; Hyde Park, ——; Adams, ——; Attleborough, ——; Marlborough, ——; Melrose, 11.31; Westfield, 15.52; Milford, ——; Revere, 12.28; Framingham, 8.32; Peabody, ——; Gardner, 21.81; Weymouth, 22.92; Southbridge, ——; Watertown, 9.37; Plymouth, ——.

The total death rate for the week was 16.20, as compared with 16.47 and 17.46 for the previous two weeks.

Cases of Infectious Diseases reported to the State Board of Health during the Week ending April 18, 1903.

(Under the Provisions of section 52 of chapter 75, of the Revised Laws of Massachusetts.)

Scarlet fever,	114	Typhoid fever,	16
Diphtheria and croup,	91	Measles,	214
Small-pox,	5		

(SIGNED) S. W. ABBOTT, M.D.,
Secretary of the State Board of Health.

The Meteorological Record for the Week, in Boston, was as follows:

DATE.	BAROMETER.	THERMOMETER.			RELATIVE HUMIDITY.			DIRECTION OF WIND.		VELOCITY OF WIND.		STATE OF WEATHER.*		RAIN-FALL.	
Week ending Saturday, April 11, 1903.	MEAN.	MEAN.	MAXIMUM.	MINIMUM.	8 A.M.	8 P.M.	MEAN.	8 A.M.	8 P.M.	8 A.M.	8 P.M.	8 A.M.	8 P.M.	DURATION.	AMOUNT IN INCHES.
Sunday, 12,	29.91	49	61	37	55	72	64	N. W.	E.	7	4	C.	C.		0.00
Monday, 13,	29.96	42	46	39	60	88	74	N. E.	E.	8	12	C.	R.		T
Tuesday, 14,	29.96	41	43	39	92	88	90	E.	N. E.	20	24	R.	O.		T
Wednesday, 15,	29.76	40	42	39	96	100	98	N. E.	N. E.	36	26	R.	R.		2.05
Thursday, 16,	29.66	38	40	37	91	91	91	N. E.	N. E.	24	24	R.	R.		0.13
Friday, 17,	29.62	41	45	37	95	61	78	N.	N. W.	24	16	R.	O.		0.07
Saturday, 18,	29.62	46	57	36	52	46	49	W.	N. W.	8	13	C.	C.		0.00
Week,	29.78		48	38			78								2.25

* O. = Cloudy; C. = Clear; F. = Fair; G. = Fog; H. = Hazy; S. = Smoky; R. = Rain; T. = Threatening; N. = Snow.

Weekly Bulletin

OF THE

STATE BOARD OF HEALTH

OF

MASSACHUSETTS

FOR THE

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SAMUEL W. ABBOTT, M.D., *Secretary.*

MORTALITY OF MASSACHUSETTS

For the Week ending April 25, 1903.

Deaths reported to the State Board of Health in 42 Cities and Greater Towns.

The number of deaths *reported* each week does not exactly correspond with the number which *occurred* during that week, but the discrepancy is a slight one in most cases. The mortality report is published weekly, and contains the returns from such cities and towns having a population of more than 10,000 inhabitants as have sent to the office of the State Board of Health the death returns of the previous week.

We shall esteem it a great favor if all reporting towns will send us their returns weekly, as heretofore, upon postal cards provided for the purpose. A supply of these cards will be sent to any town clerk or health officer who has charge of such returns and is willing to comply with this request.

CITIES AND TOWNS.	*Population. Estimated for 1903.	Reported Deaths in Each.	Deaths under Five Years.	Deaths from: Principal Infectious Diseases.	Acute Lung Diseases.	Phthisis.	Diphtheria and Croup.	Whooping-cough.	Scarlet Fever.
Boston,	603,163	242	72	45	39	26	3	6	3
Worcester,	132,044	38	18	4	3	..	..	..	..
Fall River,	115,549	51	..	15	14	9	..	..	..
Lowell,	101,959	37	12	4	5	3	..	..	..
Cambridge,	98,639	28	13	3	6	..	1	1	..
Lynn,	72,497	16	3	..	..	..	..	..	..
Lawrence,	69,766	27	12	6	1	3	..	1	..
Springfield,	69,389	39	7	7	4	3	..	1	2
Somerville,	68,110	19	5	1	5	1	..	..	..
New Bedford,	67,198	35	15	6	4	4	..	1	..
Holyoke,	49,286	22	10	5	3	1	..	..	..
Brockton,	44,873	5	0	1	..	1	..	..	..
Haverhill,	42,104	10	2	2	3	1	..	1	..
Newton,	37,794	7	1	1	..	1	..	..	..
Salem,	36,876	21	5	1	..	1	..	..	..
Malden,	36,286	6	..	..	2	..	..	..	..
Chelsea,	35,876	21	3	2	3	2	..	..	..
Fitchburg,	35,069	..	..	..	..	..	..	..	..
Taunton,	33,656	11	3	2	1	1	..	..	..
Everett,	28,620	5	1	2	..	2	..	..	..
North Adams,	27,862	8	2	3	1	2	..	..	..
Gloucester,	26,121	5	1	1	..	..	..	..	..
Quincy,	26,042	11	2	3	2	2	1	..	..
Waltham,	25,198	8	2	..	2	..	..	..	..
Brookline,	22,608	5	1	..	..	..	..	..	..
Pittsfield,	22,589	6	1	..	..	..	..	..	..
Chicopee,	21,031	11	6	7	1	1	1	..	5
Medford,	20,962	7	1	1	4	1	..	..	..
Northampton,	19,883	6	1	1	1	..	1	..	..
Beverly,	15,302	4	..	..	..	..	..	..	..
Clinton,	15,161	4	2	..	..	..	..	..	..
Newburyport,	14,478	6	0	2	1	1	..	..	..
Woburn,	14,300	4	..	1	2	1	..	..	..
Hyde Park,	14,175	6	0	1	1	..	..	..	..
Adams,	13,745	3	2	1	1	..	1	..	..
Marlborough,	13,609	4	2	1	1	..	..	..	..
Melrose,	13,600	1	..	..	..	..	..	..	..
Westfield,	13,418	2	0	..	..	..	..	..	..
Revere,	12,722	4	2	1	2	..	..	..	..
Framingham,	12,534	..	..	..	..	..	..	..	..
Gardner,	11,928	6	..	1	..	1	..	..	..
Weymouth,	11,344	4	1	1	..	1	..	..	..
Southbridge,	11,268	5	2	1	1	1	..	..	..
Watertown,	11,077	3	1	1	1	1	..	..	..

RECAPITULATION.

	Population.	Deaths.	Deaths under Five.	Infectious Diseases.	Acute Lung Diseases.	Phthisis.	Diphtheria and Croup.	Whooping-cough.	Scarlet Fever.
Total of reporting towns,	2,142,108	763	211	134	114	71	8	11	10

Note.—*The populations of the Massachusetts cities were estimated upon the rate of growth from 1895 to 1900, since the State had an intermediate census in 1895. The populations of Gloucester, Marlborough and Newburyport were allowed to stand as in 1900, they having suffered a slight decrease during the five-year period.

Deaths from Prevalent Diseases in 42 Cities and Larger Towns of Massachusetts.

One hundred and thirty-four deaths were reported from the principal infectious diseases: measles, 8; scarlet fever, 10; cerebro-spinal meningitis, 3; diphtheria and croup, 8; whooping-cough, 11; typhoid fever, 5; diarrhœal diseases, 15; influenza, 2; puerperal fever, 1.

No deaths were reported from malarial fever, small-pox or erysipelas.

There were 71 deaths from consumption, acute lung diseases, 114, still-births, 45.

From measles: Worcester, 3; Springfield, 1; Holyoke, 4. From scarlet fever: Boston, 3; Springfield, 2; Chicopee, 5. From typhoid fever: Fall River, New Bedford, Gloucester, Newburyport and Revere, 1 each. From cerebro-spinal meningitis: Boston, Taunton and Marlborough, 1 each.

Deaths under five years of age numbered 211, as compared with 177 for the preceding week.

Deaths from the principal infectious diseases numbered 134, as compared with 128 for the preceding week.

The death rates for the week were: Boston, 20.86; Worcester, 14.96; Fall River, 22.95; Lowell, 18.87; Cambridge, 14.76; Lynn, 11.47; Lawrence, 20.12; Springfield, 29.22; Somerville, 14.50; New Bedford, 27.08; Holyoke, 23.21; Brockton, 5.79; Haverhill, 12.35; Newton, 9.62; Salem, 29.61; Malden, 8.60; Chelsea, 30.45; Fitchburg, ——; Taunton, 16.99; Everett, 9.09; No. Adams, 14.93; Gloucester, 9.96; Quincy, 21.96; Waltham, 16.50; Brookline, 11.50; Pittsfield, 13.81; Chicopee, 27.20; Medford, 17.37; Northampton, 15.68; Beverly, 13.60; Clinton, 13.72; Leominster, ——; Newburyport, 23.54; Woburn, 14.54; Hyde Park, 22.01; Adams, 11.35; Attleborough, ——; Marlborough, 15.08; Melrose, 3.82; Westfield, 7.76; Milford, ——; Revere, 16.37; Framingham, ——; Peabody, ——; Gardner, 26.21; Weymouth, 18.34; Southbridge, 23.07; Watertown, 14.05; Plymouth, ——.

The total death rate for the week was 18.52, as compared with 16.20 and 16.47 for the previous two weeks.

Cases of Infectious Diseases reported to the State Board of Health during the Week ending April 25, 1903.

(Under the Provisions of section 52 of chapter 75, of the Revised Laws of Massachusetts.)

Scarlet fever, ...	126	Typhoid fever, ...	26
Diphtheria and croup, ...	79	Measles, ...	311
Small-pox, ...	13		

(SIGNED) S. W. ABBOTT, M.D.,
Secretary of the State Board of Health.

The Meteorological Record for the Week, in Boston, was as follows:

DATE.	BAROMETER.	THERMOMETER.			RELATIVE HUMIDITY.			DIRECTION OF WIND.		VELOCITY OF WIND.			STATE OF WEATHER.*			RAIN-FALL.	
Week ending Saturday, April 25, 1903.	MEAN.	MEAN.	MAXIMUM.	MINIMUM.	8 A.M.	8 P.M.		MEAN.	8 A.M.	8 P.M.	8 A.M.	8 P.M.		8 A.M.	8 P.M.		DURATION.	AMOUNT IN INCHES.
Sunday, . . 19,	29.70	46	56	36	47	39		43	W.	W.	14	10		C.	C.			0.00
Monday, . . 20,	29.68	52	64	39	39	28		34	W.	W.	12	7		C.	C.			0.00
Tuesday, . . 21,	29.70	46	55	38	44	45		44	N.	S. E.	8	2		C.	C.			0.00
Wednesday, . 22,	29.80	44	51	36	60	45		52	N. E.	S. W.	11	6		O.	O.			0.00
Thursday, . . 23,	29.91	52	59	45	48	45		46	W.	S.	4	8		C.	F.			0.00
Friday, . . 24,	29.92	50	55	45	57	63		60	N. E.	S.	1	8		O.	C.			T
Saturday, . . 25,	30.00	54	62	45	46	73		60	N. W.	N. E.	10	5		C.	C.			0.00
Week, . . .	29.82		57	41				48										T

* O. = Cloudy; C. = Clear; F. = Fair; G. = Fog; H. = Hazy; S. = Smoky; R. = Rain; T. = Threatening; N. = Snow.

Weekly Bulletin

OF THE

STATE BOARD OF HEALTH

OF

MASSACHUSETTS

FOR THE

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MORTALITY OF MASSACHUSETTS

For the Week ending May 2, 1903.

Deaths reported to the State Board of Health in 42 Cities and Greater Towns.

The number of deaths *reported* each week does not exactly correspond with the number which *occurred* during that week, but the discrepancy is a slight one in most cases. The mortality report is published weekly, and contains the returns from such cities and towns having a population of more than 10,000 inhabitants as have sent to the office of the State Board of Health the death returns of the previous week.

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Boston,	603,163	211	48	52	31	32	3	4	1
Worcester,	132,044	32	10	5	4	2	..	..	..
Fall River,	115,549	43	17	5	16	4	..	..	..
Lowell,	101,959	36	16	5	5	3	1	..	..
Cambridge,	98,639	23	3	6	3	6	..	..	..
Lynn,	72,497	16	..	3	..	1	..	..	..
Lawrence,	69,766	23	11	4	2	1	..	..	..
Springfield,	69,389	18	5	3	1	..	..	..	..
Somerville,	68,110	20	4	5	4	2	..	..	..
New Bedford,	67,198	37	16	18	3	4	..	..	11
Holyoke,	49,286	16	7	2	1	1	..	..	..
Brockton,	44,873	9	1	2	..	1	..	1	..
Haverhill,	42,104	10	1	..	2	..	..	..	..
Newton,	37,794	14	3	..	1	..	..	..	..
Salem,	36,876	16	3	2	2	1	..	..	..
Malden,	36,286	8	3	2	1	..	1	..	..
Chelsea,	35,876	12	2	..	1	..	..	..	..
Fitchburg,	35,069	14	5	..	3	..	..	..	..
Taunton,	33,656	15	5	2	3	1	..	1	..
Everett,	28,620	5	2	1	..	1	..	..	..
North Adams,	27,862	6	1	..	3	..	..	..	..
Gloucester,	26,121	9	2	1	..	1	..	..	..
Waltham,	25,198	9	3	3	1	2	..	..	..
Brookline,	22,608	9	2	2	..	..	..	1	..
Pittsfield,	22,589	6	..	1	1	..	..	..	..
Chicopee,	21,031	9	4	3	4	..	..	..	3
Medford,	20,962	9	..	..	3	..	..	..	..
Northampton,	19,883	5	0	1	..	1	..	..	..
Beverly,	15,302	4	1	..	2	..	..	..	..
Clinton,	15,161	6	3	..	..	..	..	..	..
Newburyport,	14,478	4	0	1	..	1	..	..	..
Woburn,	14,300	9	1	..	1	..	..	..	..
Hyde Park,	14,175	8	3	..	..	..	..	..	..
Adams,	13,745	1	..	..	..	..	..	..	..
Attleborough,	13,677	3	2	1	..	..	..	..	..
Marlborough,	13,609	2	1	..	..	..	..	..	..
Melrose,	13,600	..	..	..	..	..	..	..	..
Westfield,	13,418	5	2	2	..	1	..	1	..
Revere,	12,722	3	..	..	..	..	..	..	..
Framingham,	12,534	3	..	..	1	..	..	..	..
Gardner,	11,928	..	..	..	..	..	..	..	..
Weymouth,	11,344	3	..	..	1	..	..	..	..
Southbridge,	11,268	4	1	1	..	..	..	..	..
Watertown,	11,077	4	..	..	..	..	..	..	..

RECAPITULATION.

	Population.	Deaths.	Deaths under Five.	Infectious Diseases.	Acute Lung Diseases.	Phthisis.	Diphtheria and Croup.	Whooping-cough.	Scarlet Fever.
Total of reporting towns,	2,151,818	699	188	133	100	66	5	8	15

Note.—*The populations of the Massachusetts cities were estimated upon the rate of growth from 1895 to 1900, since the State had an intermediate census in 1895. The populations of Gloucester, Marlborough and Newburyport were allowed to stand as in 1900, they having suffered a slight decrease during the five-year period.

Deaths from Prevalent Diseases in 42 Cities and Larger Towns of Massachusetts.

One hundred and thirty-three deaths were reported from the principal infectious diseases: measles, 8; scarlet fever, 15; cerebro-spinal meningitis, 7; diphtheria and croup, 5; whooping-cough, 8; typhoid fever, 3; diarrhœal diseases, 16; puerperal fever, 1; erysipelas, 4.

No deaths were reported from malarial fever, small-pox or influenza.

There were 66 deaths from consumption, acute lung diseases, 100, still-births, 51.

From measles: Springfield, 3; Boston, Lawrence, New Bedford, Holyoke and Brookline, 1 each. From scarlet fever: Boston, 1; New Bedford, 11; Chicopee, 3. From typhoid fever: Boston, Lynn and Malden, 1 each. From cerebro-spinal meningitis: Boston, Worcester and Attleborough, 1 each; Somerville, 3.

Deaths under five years of age numbered 188, as compared with 211 for the preceding week.

Deaths from the principal infectious diseases numbered 133, as compared with 134 for the preceding week.

The death rates for the week were: Boston, 18.19; Worcester, 12.60; Fall River, 19.35; Lowell, 18.36; Cambridge, 12.12; Lynn, 11.47; Lawrence, 17.14; Springfield, 13.48; Somerville, 15.26; New Bedford, 28.63; Holyoke, 16.88; Brockton, 10.43; Haverhill, 12.35; Newton, 19.25; Salem, 22.56; Malden, 11.46; Chelsea, 17.40; Fitchburg, 20.76; Taunton, 23.17; Everett, 9.09; No. Adams, 11.20; Gloucester, 17.93; Quincy, ——; Waltham, 18.57; Brookline, 20.70; Pittsfield, 13.81; Chicopee, 22.25; Medford, 22.33; Northampton, 13.06; Beverly, 13.60; Clinton, 20.58; Leominster, ——; Newburyport, 14.36; Woburn, 32.72; Hyde Park, 29.35; Adams, 3.78; Attleborough, 11.40; Marlborough, 7.65; Melrose, ——; Westfield, 19.40; Milford, ——; Revere, 12.28; Framingham, 12.48; Peabody, ——; Gardner, ——; Weymouth, 13.75; Southbridge, 18.45; Watertown, 18.74; Plymouth, ——.

The total death rate for the week was 16.89, as compared with 18.52 and 16.20 for the previous two weeks.

Cases of Infectious Diseases reported to the State Board of Health during the Week ending May 2, 1903.

(Under the Provisions of section 52 of chapter 75, of the Revised Laws of Massachusetts.)

Scarlet fever,	150	Typhoid fever,	30
Diphtheria and croup,	79	Measles,	203
Small-pox,	10		

(SIGNED) **S. W. ABBOTT, M.D.,**
Secretary of the State Board of Health.

The Meteorological Record for the Week, in Boston, was as follows:

DATE.	BAROMETER.	THERMOMETER.			RELATIVE HUMIDITY.			DIRECTION OF WIND.		VELOCITY OF WIND.			STATE OF WEATHER.*			RAIN-FALL.	
Week ending Saturday, May 2, 1903.	MEAN.	MEAN.	MAXIMUM.	MINIMUM.	8 A.M.	8 P.M.		MEAN.	8 A.M.	8 P.M.	8 A.M.	8 P.M.		8 A.M.	8 P.M.		DURATION.	AMOUNT IN INCHES.
Sunday, April 26,	30.11	45	49	41	50	89		70	E.	E.	12	6		C.	O.			0.00
Monday, 27,	30.17	46	52	39	87	82		84	N.	E.	6	2		O.	C.			0.00
Tuesday, 28,	30.16	54	66	43	49	47		48	N. W.	S. W.	5	12		C.	C.			0.00
Wednesday, 29,	30.01	69	83	55	34	45		40	W.	N.	9	3		C.	C.			0.00
Thursday, 30,	29.89	72	83	60	56	50		53	S.	S. W.	6	15		C.	C.			0.00
Friday, May 1,	30.12	51	63	39	46	40		43	W.	N.	24	12		O.	C.			0.00
Saturday, 2,	30.53	39	44	34	45	75		60	E.	S. E.	15	11		C.	C.			0.00
Week,	30.14		63	44				57										0.00

* O. = Cloudy; C. = Clear; F. = Fair; G. = Fog; H. = Hazy; S. = Smoky; R. = Rain; T. = Threatening; N. = Snow.

Weekly Bulletin

OF THE

STATE BOARD OF HEALTH

OF

MASSACHUSETTS

FOR THE

Week ending Saturday, May 9, 1903.

An official publication of the State Board of Health of Massachusetts, published weekly at the office of the Board, State House, Boston, Mass.

VOL. XXI. No. 19.

Entered at the post-office at Boston as second-class matter.

This publication contains the returns of deaths made each week to the State Board of Health from cities and towns in Massachusetts having over 10,000 inhabitants in each.

It also contains the reports of cases of infectious diseases returned by the boards of health of cities and towns.

Once in each month the work done under the Food and Drug Acts is also reported in this bulletin.

STATE BOARD OF HEALTH.

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HIRAM F. MILLS, C.E., Lawrence.
GERARD C. TOBEY, Esq., Wareham.
JAMES W. HULL, Pittsfield.
CHARLES H. PORTER, Quincy.
JOHN W. BARTOL, M.D., Boston.

SAMUEL W. ABBOTT, M.D., *Secretary.*

MORTALITY OF MASSACHUSETTS

For the Week ending May 9, 1903.

Deaths reported to the State Board of Health in 44 Cities and Greater Towns.

The number of deaths *reported* each week does not exactly correspond with the number which *occurred* during that week, but the discrepancy is a slight one in most cases. The mortality report is published weekly, and contains the returns from such cities and towns having a population of more than 10,000 inhabitants as have sent to the office of the State Board of Health the death returns of the previous week.

We shall esteem it a great favor if all reporting towns will send us their returns weekly, as heretofore, upon postal cards provided for the purpose. A supply of these cards will be sent to any town clerk or health officer who has charge of such returns and is willing to comply with this request.

CITIES AND TOWNS.	*Population. Estimated for 1903.	Reported Deaths in Each.	Deaths under Five Years.	Deaths from Principal Infectious Diseases.	Acute Lung Diseases.	Phthisis.	Diphtheria and Croup.	Whooping-cough.	Scarlet Fever.
Boston,	603,163	210	54	52	36	29	4	5	2
Worcester,	132,044	53	9	7	12	2	..	..	1
Fall River,	115,549	36	13	7	9	6	..	..	..
Lowell,	101,959	32	10	3	10	3	..	..	..
Cambridge,	98,639	18	8	2	2	2	..	..	..
Lynn,	72,497	10	2	..	..	..	..	..	..
Lawrence,	69,766	22	8	10	3	4	1	..	..
Springfield,	69,389	17	7	4	3	1	1	1	..
Somerville,	68,110	27	7	4	10	2	1	..	.
New Bedford,	67,198	35	11	13	4	5	..	..	7
Holyoke,	49,286	18	9	3	4	1	1	..	..
Brockton,	44,873	9	0	3	..	3	..	..	..
Haverhill,	42,104	9	2	..	2	..	..	..	..
Newton,	37,794	6	..	..	1	..	..	..	..
Salem,	36,876	15	3	2	2	2	..	..	..
Malden,	36,286	6	..	1	..	1	..	..	..
Chelsea,	35,876	11	3	2	1	2	..	..	..
Fitchburg,	35,069	6	2	1	5	1	..	..	..
Taunton,	33,656	10	1	3	3	2	..	..	..
Everett,	28,620	6	2	1	..	..	1	..	..
North Adams,	27,862	7	1	2	..	1	..	..	..
Gloucester,	26,121	8	3	1	..	1	..	..	..
Quincy,	26,042	7	1	..	1	..	..	..	..
Waltham,	25,198	2	..	..	..	..	..	..	..
Pittsfield,	22,589	4	1	..	1	..	..	..	..
Chicopee,	21,031	19	12	7	3	..	1	..	5
Medford,	20,962	4	1	..	1	..	..	..	..
Northampton,	19,883	4	2	2	..	..	..	1	1
Beverly,	15,302	2	1	..	..	..	..	..	..
Clinton,	15,161	4	2	..	..	..	..	..	..
Newburyport,	14,478	4	1	..	1	..	..	..	..
Woburn,	14,300	8	2	1	1	1	..	..	..
Adams,	13,745	5	3	2	..	1	..	..	..
Attleborough,	13,677	1	..	..	..	..	..	..	..
Marlborough,	13,609	6	2	2	..	1	..	1	..
Melrose,	13,600	0	..	..	..	..	..	..	..
Westfield,	13,418	6	4	2	1	..	..	1	1
Revere,	12,722	3	1	..	..	..	..	..	..
Framingham,	12,534	6	1	1	2	..	..	1	..
Gardner,	11,928	5	..	2	..	2	..	..	..
Weymouth,	11,344	4	0	1	..	..	1	..	..
Southbridge,	11,268	5	1	1	..	1	..	..	..
Watertown,	11,077	5	1	..	..	..	..	..	..
Plymouth,	10,730	1	..	..	..	..	..	..	..

RECAPITULATION.

	Population.	Deaths.	Deaths under Five.	Infectious Diseases.	Acute Lung Diseases.	Phthisis.	Diphtheria and Croup.	Whooping-cough.	Scarlet Fever.
Total of reporting towns,	2,177,535	676	181	142	118	74	11	10	17

Note.—*The populations of the Massachusetts cities were estimated upon the rate of growth from 1895 to 1900, since the State had an intermediate census in 1895. The populations of Gloucester, Marlborough and Newburyport were allowed to stand as in 1900, they having suffered a slight decrease during the five-year period.

Deaths from Prevalent Diseases in 44 Cities and Larger Towns of Massachusetts.

One hundred and forty-two deaths were reported from the principal infectious diseases: measles, 2; scarlet fever, 17; cerebro-spinal meningitis, 8; diphtheria and croup, 11; whooping-cough, 10; typhoid fever, 3; diarrhœal diseases, 14; erysipelas, 1; malarial fever, 1; small-pox, 1.

No deaths were reported from influenza, or puerperal fever.

There were 74 deaths from consumption, acute lung diseases, 118, still-births, 37.

From measles: Springfield and Holyoke, 1 each. From scarlet fever: Boston, 2; New Bedford, 7; Chicopee, 5, and Worcester, Northampton and Westfield, 1 each. From erysipelas: Worcester, 1. From typhoid fever: Lawrence, North Adams and Chicopee, 1 each. From cerebro-spinal meningitis: Boston and Worcester, 3 each; Somerville and Taunton, 1 each. From small-pox: Lawrence, 1. From malarial fever: Lawrence, 1.

Deaths under five years of age numbered 181, as compared with 188 for the preceding week.

Deaths from the principal infectious diseases numbered 142, as compared with 133 for the preceding week.

The death rates for the week were: Boston, 18.10; Worcester, 20.87; Fall River, 16.20; Lowell, 16.32; Cambridge, 9.49; Lynn, 7.12; Lawrence, 16.39; Springfield, 12.73; Somerville, 20.61; New Bedford, 27.08; Holyoke, 18.99; Brockton, 10.43; Haverhill, 11.11; Newton, 8.25; Salem, 21.15; Malden, 8.60; Chelsea, 15.95; Fitchburg, 8.90; Taunton, 15.45; Everett, 10.91; No. Adams, 13.06; Gloucester, 15.53; Quincy, 13.98; Waltham, 4.12; Brookline, ——; Pittsfield, 9.20; Chicopee, 46.98; Medford, 9.92; Northampton, 10.45; Beverly, 6.80; Clinton, 13.72; Leominster, ——; Newburyport, 14.36; Woburn, 29.09; Hyde Park, ——; Adams, 18.92; Attleborough, 3.80; Marlborough, 22.94; Melrose, ——; Westfield, 23.28; Milford, ——; Revere, 12.28; Framingham, 24.96; Peabody, ——; Gardner, 21.84; Weymouth, 18.34; Southbridge, 23.07; Watertown, 23.42; Plymouth, 4.85.

The total death rate for the week was 16.14, as compared with 16.89 and 18.52 for the previous two weeks.

Cases of Infectious Diseases reported to the State Board of Health during the Week ending May 9, 1903.

(Under the Provisions of section 52 of chapter 75, of the Revised Laws of Massachusetts.)

Scarlet fever, ...	148	Typhoid fever, ...	36
Diphtheria and croup, ...	112	Measles, ...	291
Small-pox, ...	3		

(SIGNED) S. W. ABBOTT, M.D.,
Secretary of the State Board of Health.

The Meteorological Record for the Week, in Boston, was as follows:

DATE.	BAROM-ETER.	THER-MOMETER.			RELATIVE HUMIDITY.			DIRECTION OF WIND.		VELOCITY OF WIND.			STATE OF WEATHER.*			RAIN-FALL.	
Week ending Saturday, May 9, 1903.	MEAN.	MEAN.	MAXIMUM.	MINIMUM.	8 A.M.	8 P.M.	MEAN.	8 A.M.	8 P.M.	8 A.M.	8 P.M.		8 A.M.	8 P.M.		DURATION.	AMOUNT IN INCHES.
Sunday, . . 3,	30.34	42	47	38	73	89	81	E.	S.E.	8	6		O.	O.			0.00
Monday, . . 4,	30.18	47	51	43	96	96	96	N.E.	N.E.	5	5		R.	O.			0.00
Tuesday, . . 5,	30.20	52	57	46	79	100	90	N.E.	N.E.	14	15		O.	R.			0.00
Wednesday, . 6,	30.13	50	52	47	90	87	88	N.	S.E.	10	2		O.	C.			0.03
Thursday, . . 7,	30.05	50	55	45	78	88	83	S.E.	S.E.	7	8		C.	O.			0.05
Friday, . . 8,	30.12	56	63	49	69	68	68	N.W.	S.E.	6	8		C.	C.			0.06
Saturday, . . 9,	30.26	54	62	47	52	86	69	N.E.	E.	10	10		C.	C.			0.00
Week, . . .	30.18		55	45			82										0.14

* O. = Cloudy; C. = Clear; F. = Fair; G. = Fog; H. = Hazy; S. = Smoky; R. = Rain; T. = Threatening; N. = Snow.

INSPECTION OF FOOD AND DRUGS.

The following summary presents the results of the examinations of Food and Drugs by the State Board of Health in the month of April, 1903: —

ARTICLES EXAMINED.	Number found to be of good quality.	Number adulterated or varying from the legal standard.	TOTAL.	ARTICLES EXAMINED.	Number found to be of good quality.	Number adulterated or varying from the legal standard.	TOTAL.
Milk,	443	91	534	Maple Syrup,	3	7	10
Butter,	6	1	7	Canned Goods,	..	..	..
Cheese,	6	6	12	Honey,	6	2	8
Lard,	1	..	1	Tea,	3	..	3
Olive Oil,	..	..	..	Coffee,	6	1	7
Vinegar,	..	..	..	Cocoa and Chocolate,	2	..	2
Spices,	104	10	114	Confectionery,	4	..	4
Cream of Tartar,	24	..	24	Lemon Extract,	..	4	4
Molasses,	4	..	4	Vanilla Extract,	1	3	4
Syrups,	..	..	..	Miscellaneous,	16	19	35
Maple Sugar,	5	4	9	Drugs,	52	42	94
				Totals,	686	190	876

Percentage of adulteration, 21.7. The actual ratio of adulteration is very much less than this, since it is only suspicious articles of food to which the attention of the Board is directed. Certain staple products, such as sugar, flour, and the various other cereal products, are very rarely adulterated and require but little inspection. The work of the Board is therefore mainly devoted to the inspection of such articles as it has found, by several years of experience, to be especially liable to adulteration.

The ratio of samples of milk found to be below the standard was 17.0 per cent., while the percentage of articles of food was 23.0 per cent.

Four complaints were entered in the courts during the month for violation of the laws relative to the inspection of Food and Drugs.

Under miscellaneous are included 17 samples of jellies and jams.

The samples of drugs found to be adulterated were Aqua Destillata, Capsicum, Cera Alba, Cera Flava, Chloroformum, Oleum Olivæ, Sulphur Lotum, Sulphur Præcipitatum and Tinctura Iodi.

Cities and towns from which samples of food were collected were Boston, Cambridge, Fall River, Holyoke, Newton, North Adams, Waltham, Pittsfield, Westfield, Gardner, Natick, Greenfield, Watertown, Waverly, Princeton, Somerville, Everett, Medford, Salem, Lawrence, Haverhill, Brockton, Newburyport, Braintree, Milford, Stoughton, Revere, and Chelsea.

RECORD OF PROSECUTIONS IN APRIL, 1903.

No.	Date of Trial.	Name of Defendant.	Place.	Character of Articles Sold.	Result of Trial.
1	March 19,	Frank Lawrence,	Dedham,	Milk,	Conviction.*
2	April 10,	Theron M. Totman,	Charlemont,	Cream cheese,	Discharged.
3	April 24,	I. R. Methe,	Fall River,	Milk,	Conviction.†
4	April 24,	Nathan Dashoff,	Fall River,	Milk,	Conviction.†

* Plead Guilty. † Placed on file on payment of cost.

Total amount of fines, $36.50.

The total solids in samples of milk, upon which the foregoing cases were entered, were as follows: — 10.20 — 9.76 — 10.30.

Commonwealth of Massachusetts.—State Board of Health.

Publication of Results of Analyses of Certain Articles of Food, required by Chapter 272, of the Acts of 1902.

For the Month of April, 1903.

Number of Sample.	Date of Collection.	City or Town where Purchased.	Character of Sample.	Brand or Name of Manufacturer, Wholesaler or Producer.	Results of Analyses.
47138	April 27.	Newburyport.	Honey.	Mountain Laurel California, Manhattan Dairy Co, Boston.	Admixture of commercial glucose.
1282 K	April 25.	Boston.	Honey.	Wild Rose, San Diego Honey Co., Cal.	Admixture of commercial glucose and cane sugar.
7343 L	April 13.	Newton.	Maple Syrup.	American Pickling Co., Providence, R. I.	Contains sugar other than maple.
46904	April 2.	Boston.	Maple Syrup.	Gold Leaf Brand, Huntington Maple Syrup & Sugar Co., Providence, R. I.	Contains sugar other than maple.
7061 L	March 30.	North Adams.	Maple Syrup.	Whitcher's, Ayer Preserving Co., Ayer, Mass.	Contains sugar other than maple.
1008 K	April 9.	Salem.	Maple Syrup.	Merrimac Brand, Riverside Preserving Co., Lowell, Mass.	Contains sugar other than maple.
846 K	April 3.	Boston.	Maple Syrup.	Green Mountain Brand, Nat'l Maple Sugar Ass'n, Waitsfield, Vt.	Contains sugar other than maple.
1250 K	April 24.	Boston.	Maple Syrup.	R. Foulsham, Boston.	Contains sugar other than maple.
46846	March 30.	Medford.	Cheese.	Manhattan Club, Manhattan Dairy Co., Boston, Mass.	Preserved with boric acid.
46969	April 8.	Medford.	Cheese.	Mountain Brand, Neufchatel Cream, Charlemont Creamery, Charlemont, Mass.	Skimmed milk cheese.
47008	April 14.	Medford.	Cheese.	Canada Cream, Detroit, Michigan.	Preserved with boric acid.
47139	April 27.	Newburyport.	Preserved Pineapple.	Manhattan Dairy Co., Boston.	Preserved with benzoic and salicylic acids. No formula.
7347 L	April 14.	Boston.	Raspberry Jam.	Logan & Johnson, Boston.	Preserved with benzoic acid. Not in formula.
7349 L	April 14.	Boston.	Strawberry Jam.	Logan & Johnson, Boston.	Preserved with benzoic acid. Not in formula.
1020 K	April 11.	Salem.	Raspberry Jam.	Preferred Stock, Martin L. Hall, Boston.	Preserved with salicylic acid and colored. No formula.
776 K	March 30.	Quincy.	Cherry Jam.	Ayer Preserving Co., Ayer, Mass.	Preserved with salicylic and benzoic acids. No formula.
46307	February 4.	Cambridge.	Peach Jam.	Ayer Preserving Co., Ayer, Mass.	Preserved with salicylic and benzoic acids. Not in formula.
46822	March 25.	Somerville.	Blackberry Jelly.	The J. Weller Co., Cinn., O.	Preserved with benzoic acid. Not in formula.
1018 K	April 11.	Salem.	Strawberry Jam.	Williams Bros. & Charbonneau, Detroit, Mich.	Preserved with benzoic acid. No formula.
46583	February 27.	Somerville.	Strawberry Jam.	Eagle Brand, Anderson Food Co., Camden, N. J.	Glucose greatly in excess of amount stated.
46584	February 27.	Somerville.	Raspberry Jam.	Eagle Brand, Anderson Food Co., Camden, N. J.	Glucose greatly in excess of amount stated.
46906	April 2.	Boston.	Raspberry Jam.	Princess Conserve Co., Camden, N. J.	Colored. Not in formula.
47141	April 27.	Newburyport.	"Currant Flavored Jelly."	Lutz & Schramm Co., Alleghany, Pa.	Colored. No formula.
7587 L	April 29.	Boston.	Strawberry Jelly.	Quaker Brand, John Boyle Co., Baltimore, Md.	Colored. Not in formula. Formula obscurely marked.
7589 L	April 29.	Boston.	Raspberry Jelly.		
46913			Vanilla Extract.	Perfection, Perfection Extract Co., New York.	No vanillin.
46908	April 2.	Boston.	Vanilla Extract.	A. & P., Great Atlantic & Pacific Tea Co., New York.	Formula with names, not the per cent of ingredients.
46930	April 3.	Somerville.	Lemon Extract.	Regal Extract Co., Boston.	1.3% lemon oil. No formula.
6895 L	March 24.	Somerville.	Lemon Extract.	Manning, L. W. Manning Co., Somerville.	1.8% lemon oil. No formula.
7461 L	April 21.	Fall River.	Lemon Extract.	Favorite, Cate & Sullivan, Fall River.	2.3% lemon oil. No formula.
46909	April 2.	Boston.	Lemon Extract.	A. & P., Great Atlantic & Pacific Tea Co., N. Y.	No lemon oil. Formula purports to contain 5%.
46900	April 3.	Boston.	Baking Powder.	Dry Yeast, R. B. Davis, N. Y.	Alum, phosphate powder. No formula.

Weekly Bulletin

OF THE

STATE BOARD OF HEALTH

OF

MASSACHUSETTS

FOR THE

Week ending Saturday, May 16, 1903.

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VOL. XXI. No. 20.

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MORTALITY OF MASSACHUSETTS

For the Week ending May 16, 1903.

Deaths reported to the State Board of Health in 39 Cities and Greater Towns.

The number of deaths *reported* each week does not exactly correspond with the number which *occurred* during that week, but the discrepancy is a slight one in most cases. The mortality report is published weekly, and contains the returns from such cities and towns having a population of more than 10,000 inhabitants as have sent to the office of the State Board of Health the death returns of the previous week.

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CITIES AND TOWNS.	*Population. Estimated for 1903.	Reported Deaths in Each.	Deaths under Five Years.	Deaths from: Principal Infectious Diseases.	Acute Lung Diseases.	Phthisis.	Diphtheria and Croup.	Whooping-cough.	Scarlet Fever.
Boston,	603,163	229	63	56	44	26	6	2	1
Worcester,	132,044	32	13	5	2	2	..	..	..
Fall River,	115,549	31	15	7	6	5	1	..	..
Lowell,	101,959	36	12	6	8	3	1	1	..
Cambridge,	98,639	28	7	6	4	3	..	2	..
Lynn,	72,497	22	5	4	..	2	..	1	..
Lawrence,	69,766	13	4	4	2	1	3	..	..
Springfield,	69,389	14	1	1	2	..	..	..	..
Somerville,	68,110	20	8	6	4	..	..	2	..
New Bedford,	67,198	34	11	11	4	4	1	..	5
Holyoke,	49,286	..	..	..	..	..	..	..	..
Brockton,	44,873	6	1	2	..	1	..	1	..
Haverhill,	42,104	9	1	1	2	1	..	..	..
Newton,	37,794	13	3	..	1	..	..	..	..
Salem,	36,876	15	2	2	..	2	..	..	..
Malden,	36,286	8	1	1	..	1	..	..	..
Chelsea,	35,876	13	3	1	2	1	..	..	..
Fitchburg,	35,069	..	..	..	..	..	..	..	..
Taunton,	33,656	..	..	..	..	..	..	..	..
Everett,	28,620	7	3	1	..	..	..	1	..
North Adams,	27,862	8	5	2	..	..	..	..	1
Gloucester,	26,121	14	3	3	..	2	1	..	..
Quincy,	26,042	..	..	..	..	..	..	..	..
Waltham,	25,198	9	4	1	1	..	..	..	..
Brookline,	22,608	15	5	4	2	..	..	1	2
Pittsfield,	22,589	2	..	..	1	..	..	..	..
Chicopee,	21,031	13	7	4	..	..	..	..	4
Medford,	20,962	5	1	..	2	..	..	..	..
Northampton,	19,883	6	0	4	..	2	1	..	..
Beverly,	15,302	7	1	1	..	1	..	..	..
Clinton,	15,161	4	1	1	1	1	..	..	..
Leominster,	14,806	..	..	..	..	..	..	..	..
Newburyport,	14,478	4	0	..	..	..	..	..	..
Woburn,	14,300	2	..	..	..	..	..	..	..
Hyde Park,	14,175	..	..	..	..	..	..	..	..
Adams,	13,745	1	1	1	..	1	..	..	..
Attleborough,	13,677	..	..	..	..	..	..	..	..
Marlborough,	13,609	4	1	1	..	1	..	..	..
Melrose,	13,600	2	1	..	1	..	..	..	..
Westfield,	13,418	6	2	1	1	..	..	..	..
Milford,	13,129	..	..	..	..	..	..	..	..
Revere,	12,722	2	1	..	..	..	..	..	..
Framingham,	12,534	..	..	..	..	..	..	..	..
Peabody,	12,179	..	..	..	..	..	..	..	..
Gardner,	11,928	2	..	..	..	..	..	..	..
Weymouth,	11,344	5	1	..	1	..	..	..	..
Southbridge,	11,268	4	1	..	1	..	..	..	..
Watertown,	11,077	2	1	1	..	..	..	1	..
Plymouth,	10,730	2	..	..	1	..	..	..	..

RECAPITULATION.

	Population.	Deaths.	Deaths under Five.	Infectious Diseases.	Acute Lung Diseases.	Phthisis.	Diphtheria and Croup.	Whooping-cough.	Scarlet Fever.
Total of reporting towns,	2,029,679	649	189	139	93	61	14	12	13

Note.—*The populations of the Massachusetts cities were estimated upon the rate of growth from 1895 to 1900, since the State had an intermediate census in 1895. The populations of Gloucester, Marlborough and Newburyport were allowed to stand as in 1900, they having suffered a slight decrease during the five-year period.

Deaths from Prevalent Diseases in 42 Cities and Larger Towns of Massachusetts.

One hundred and thirty-nine deaths were reported from the principal infectious diseases: measles, 2; scarlet fever, 13; cerebro-spinal meningitis, 6; diphtheria and croup, 14; whooping-cough, 12; typhoid fever, 5; diarrhœal diseases, 22; puerperal fever, 1; erysipelas, 2.

No deaths were reported from malarial fever, small-pox, or influenza.

There were 61 deaths from consumption, acute lung diseases, 93, still-births, 46.

From measles: Springfield and Brookline, 1 each. From scarlet fever: Boston, 1; New Bedford, 5; North Adams, 1; Brookline, 2; Chicopee, 4. From typhoid fever: Boston, Lowell, New Bedford, Somerville and Northampton, 1 each. From cerebro-spinal meningitis: Boston, 2; Worcester, 2; Somerville, 1; Waltham, 1.

Deaths under five years of age numbered 189, as compared with 181 for the preceding week.

Deaths from the principal infectious diseases numbered 139, as compared with 142 for the preceding week.

The death rates for the week were: Boston, 19.74; Worcester, 12.60; Fall River, 13.95; Lowell, 18.36; Cambridge, 14.76; Lynn, 15.78; Lawrence, 9.69; Springfield, 10.49; Somerville, 15.27; New Bedford, 26.30; Holyoke, ——; Brockton, 6.95; Haverhill, 11.12; Newton, 17.87; Salem, 21.15; Malden, 11.46; Chelsea, 18.85; Fitchburg, ——; Taunton, ——; Everett, 12.72; No. Adams, 14.93; Gloucester, 27.88; Quincy, ——; Waltham, 18.57; Brookline, 34.50; Pittsfield, 4.60; Chicopee, 32.15; Medford, 12.40; Northampton, 15.68; Beverly, 23.73; Clinton, 13.72; Leominster, ——; Newburyport, 14.36; Woburn, 7.27; Hyde Park, ——; Adams, 3.78; Attleborough, ——; Marlborough, 15.29; Melrose, 7.65; Westfield, 23.28; Milford, ——; Revere, 8.19; Framingham, ——; Peabody, ——; Gardner, 8.74; Weymouth, 22.92; Southbridge, 18.45; Watertown, 9.37; Plymouth, 9.69.

The total death rate for the week was 16.62, as compared with 16.14 and 16.89 for the previous two weeks.

Cases of Infectious Diseases reported to the State Board of Health during the Week ending May 16, 1903.

(Under the Provisions of section 52 of chapter 75, of the Revised Laws of Massachusetts.)

Scarlet fever,	146	Typhoid fever,	31
Diphtheria and croup,	105	Measles,	285
Small-pox,	6		

(SIGNED) **S. W. ABBOTT, M.D.,**
Secretary of the State Board of Health.

The Meteorological Record for the Week, in Boston, was as follows:

DATE.	BAROM-ETER.	THER-MOMETER.			RELATIVE HUMIDITY.			DIRECTION OF WIND.		VELOCITY OF WIND.		STATE OF WEATHER.*			RAIN-FALL.	
Week ending Saturday, May 16, 1903.	MEAN.	MEAN.	MAXIMUM.	MINIMUM.	8 A.M.	8 P.M.	MEAN.	8 A.M.	8 P.M.	8 A.M.	8 P.M.	8 A.M.	8 P.M.		DURATION.	AMOUNT IN INCHES.
Sunday, 10,	30.30	60	75	46	78	44	61	S. E.	S. W.	2	8	C.	C.			0.00
Monday, 11,	30.34	58	69	48	40	45	42	S. W.	S. W.	3	9	C.	C.			0.00
Tuesday, 12,	30.38	60	70	49	69	46	58	S. W.	S.	2	11	C.	C.			0.00
Wednesday, 13,	30.26	60	74	46	76	66	71	S. W.	S. W.	3	14	C.	C.			0.00
Thursday, 14,	30.02	59	70	48	76	82	79	W.	S. E.	10	4	C.	R.			T
Friday, 15,	29.94	58	67	50	88	51	70	S. W.	S.	4	7	C.	C.			0.11
Saturday, 16,	30.25	53	59	47	72	87	80	N.	S. E.	12	2	C.	C.			0.00
Week,	30.21		69	48			66									0.11

* O. = Cloudy; C. = Clear; F. = Fair; G. = Fog; H. = Hazy; S. = Smoky; R. = Rain; T. = Threatening; N. = Snow.

Weekly Bulletin

OF THE

STATE BOARD OF HEALTH

OF

MASSACHUSETTS

FOR THE

Week ending Saturday, May 23, 1903.

An official publication of the State Board of Health of Massachusetts, published weekly at the office of the Board, State House, Boston, Mass.

VOL. XXI. No. 21.

Entered at the post-office at Boston as second-class matter.

This publication contains the returns of deaths made each week to the State Board of Health from cities and towns in Massachusetts having over 10,000 inhabitants in each.

It also contains the reports of cases of infectious diseases returned by the boards of health of cities and towns.

Once in each month the work done under the Food and Drug Acts is also reported in this bulletin.

STATE BOARD OF HEALTH.

HENRY P. WALCOTT, M.D., Cambridge, *Chairman.*
JULIAN A. MEAD, M.D., Watertown.
HIRAM F. MILLS, C.E., Lawrence.
GERARD C. TOBEY, Esq., Wareham.
JAMES W. HULL, Pittsfield.
CHARLES H. PORTER, Quincy.
JOHN W. BARTOL, M.D., Boston.

SAMUEL W. ABBOTT, M.D., *Secretary.*

MORTALITY OF MASSACHUSETTS

For the Week ending May 23, 1903.

Deaths reported to the State Board of Health in 40 Cities and Greater Towns.

The number of deaths *reported* each week does not exactly correspond with the number which *occurred* during that week, but the discrepancy is a slight one in most cases. The mortality report is published weekly, and contains the returns from such cities and towns having a population of more than 10,000 inhabitants as have sent to the office of the State Board of Health the death returns of the previous week.

We shall esteem it a great favor if all reporting towns will send us their returns weekly, as heretofore, upon postal cards provided for the purpose. A supply of these cards will be sent to any town clerk or health officer who has charge of such returns and is willing to comply with this request.

CITIES AND TOWNS.	*Population. Estimated for 1903.	Reported Deaths in Each.	Deaths under Five Years.	Deaths from					
				Principal Infectious Diseases.	Acute Lung Diseases.	Phthisis.	Diphtheria and Croup.	Whooping-cough.	Scarlet Fever.
Boston,	603,163	196	52	49	30	27	4	5	4
Worcester,	132,044	36	6	2	5	..	..	..	..
Fall River,	115,549	49	19	15	10	8	..	..	1
Lowell,	101,959	33	16	5	5	3	..	1	..
Cambridge,	98,639	19	7	4	4	1	1	1	..
Lynn,	72,497	20	5	4	..	1	..	..	..
Lawrence,	69,766	31	13	6	3	4	1	..	..
Springfield,	69,389	20	7	2	1	1	..	..	..
Somerville,	68,110	12	1	3	2	1	..	1	..
New Bedford,	67,198	38	16	11	3	5	..	..	5
Holyoke,	49,286	15	8	6	1	4	1	..	..
Brockton,	44,873	10	1	2	..	2	..	..	..
Haverhill,	42,104	9	..	2	1	2	..	..	..
Newton,	37,794	9	..	1	..	1	..	..	..
Salem,	36,876	12	2	1	..	1	..	..	..
Malden,	36,286	14	1	..	1	..	..	..	..
Chelsea,	35,876	8	0	..	..	..	..	..	..
Fitchburg,	35,069	5	1	..	..	..	..	..	..
Taunton,	33,656	10	2	2	1	1	..	..	1
Everett,	28,620	6	3	1	..	..	1	..	..
North Adams,	27,862	6	1	..	..	..	..	..	..
Gloucester,	26,121	9	2	1	..	..	1	..	..
Quincy,	26,042	..	..	..	..	..	..	..	..
Waltham,	25,198	6	1	..	1	..	..	..	..
Brookline,	22,608	1	..	..	1	..	..	..	..
Pittsfield,	22,589	12	..	1	3	1	..	..	..
Chicopee,	21,031	9	3	3	..	1	..	..	2
Medford,	20,962	1	..	1	..	1	..	..	..
Northampton,	19,883	10	1	2	..	1	..	..	1
Beverly,	15,302	4	..	..	1	..	..	..	..
Clinton,	15,161	5	..	..	1	..	..	..	..
Leominster,	14,806	..	..	..	..	..	..	..	..
Newburyport,	14,478	3	0	1	2	1	..	..	..
Woburn,	14,300	..	..	..	..	..	..	..	..
Hyde Park,	14,175	7	0	2	2	2	..	..	..
Adams,	13,745	..	..	..	..	..	..	..	..
Attleborough,	13,677	..	..	..	..	..	..	..	..
Marlborough,	13,609	5	1	1	..	..	..	..	1
Melrose,	13,600	3	..	..	..	..	..	..	..
Westfield,	13,418	6	3	1	3	1	..	..	..
Milford,	13,129	..	..	..	..	..	..	..	..
Revere,	12,722	5	1	..	1	..	..	..	..
Framingham,	12,534	4	2	..	..	..	..	..	..
Peabody,	12,179	..	..	..	..	..	..	..	..
Gardner,	11,928	3	..	..	1	..	..	..	..
Weymouth,	11,344	..	..	..	..	..	..	..	..
Southbridge,	11,268	3	1	1	1	..	..	..	..
Watertown,	11,077	0	..	..	..	..	..	..	..
Plymouth,	10,730	..	..	..	..	..	..	..	..

RECAPITULATION.

	Population.	Deaths.	Deaths under Five.	Infectious Diseases.	Acute Lung Diseases.	Phthisis.	Diphtheria and Croup.	Whooping-cough.	Scarlet Fever.
Total of reporting towns,	2,124,280	654	176	130	84	70	9	8	15

NOTE.—*The populations of the Massachusetts cities were estimated upon the rate of growth from 1895 to 1900, since the State had an intermediate census in 1895. The populations of Gloucester, Marlborough and Newburyport were allowed to stand as in 1900, they having suffered a slight decrease during the five-year period.

Deaths from Prevalent Diseases in 40 Cities and Larger Towns of Massachusetts.

One hundred and thirty deaths were reported from the principal infectious diseases: measles, 2; scarlet fever, 15; cerebro-spinal meningitis, 6; diphtheria and croup, 9; whooping-cough, 8; typhoid fever, 5; diarrhœal diseases, 15.

No deaths were reported from malarial fever, small-pox, influenza, erysipelas, or puerperal fever.

There were 70 deaths from consumption, acute lung diseases, 84, still-births, 50.

From measles: Springfield and Holyoke, 1 each. From scarlet fever: Boston, 4; New Bedford, 5; Chicopee, 2; and Fall River, Taunton, Northampton and Marlborough, 1 each. From typhoid fever: Boston, 3; Fall River and Lynn, 1 each. From cerebro-spinal meningitis: Worcester, 2; Cambridge, 1; Lynn, 2; Southbridge, 1.

Deaths under five years of age numbered 176, as compared with 189 for the preceding week.

Deaths from the principal infectious diseases numbered 130, as compared with 139 for the preceding week.

The death rates for the week were: Boston, 16.89; Worcester, 14.18; Fall River, 22.05; Lowell, 16.83; Cambridge, 10.02; Lynn, 14.34; Lawrence, 23.10; Springfield, 14.98; Somerville, 9.16; New Bedford, 29.40; Holyoke, 15.82; Brockton, 11.59; Haverhill, 11.11; Newton, 12.37; Salem, 16.92; Malden, 20.02; Chelsea, 11.60; Fitchburg, 7.42; Taunton, 15.45; Everett, 10.91; No. Adams, 11.20; Gloucester, 17.93; Quincy, ——; Waltham, 12.38; Brookline, 2.30; Pittsfield, 27.62; Chicopee, 22.26; Medford, 2.48; Northampton, 26.13; Beverly, 13.60; Clinton, 17.15; Leominster, ——; Newburyport, 10.77; Woburn, ——; Hyde Park, 25.68; Adams, ——; Attleborough, ——; Marlborough, 19.11; Melrose, 11.46; Westfield, 23.28; Milford, ——; Revere, 20.47; Framingham, 16.64; Peabody, ——; Gardner, 13.10; Weymouth, ——; Southbridge, 13.84; Watertown, ——; Plymouth, ——.

The total death rate for the week was 16.00, as compared with 16.62 and 16.14 for the previous two weeks.

Cases of Infectious Diseases reported to the State Board of Health during the Week ending May 23, 1903.

(Under the Provisions of section 52 of chapter 75, of the Revised Laws of Massachusetts.)

Scarlet fever, ...	157	Typhoid fever, ...	45
Diphtheria and croup, ...	104	Measles, ...	332
Small-pox, ...	4		

(SIGNED) **S. W. ABBOTT, M.D.,**
Secretary of the State Board of Health.

The Meteorological Record for the Week, in Boston, was as follows:

DATE.	BAROM-ETER.	THER-MOMETER.			RELATIVE HUMIDITY.			DIRECTION OF WIND.		VELOCITY OF WIND.			STATE OF WEATHER.*			RAIN-FALL.	
Week ending Saturday, May 23, 1903.	MEAN.	MEAN.	MAXIMUM.	MINIMUM.	8 A.M.	8 P.M.		MEAN.	8 A.M.	8 P.M.	8 A.M.	8 P.M.		8 A.M.	8 P.M.		DURATION.	AMOUNT IN INCHES.
Sunday, . . 17,	30.14	66	84	49	62	50		56	W.	S. W.	11	15		C.	C.			0.00
Monday, . . 18,	29.98	74	88	60	69	54		62	W.	N. E.	8	5		C.	F.			0.00
Tuesday, . . 19,	29.90	76	88	64	61	62		62	W.	S. W.	8	11		C.	O.			0.01
Wednesday, . 20,	29.89	70	80	59	69	49		59	E.	W.	4	11		C.	C.			T
Thursday, . . 21,	29.93	75	84	66	46	47		46	N. W.	S. W.	12	13		C.	C.			0.00
Friday, . . 22,	29.80	72	84	60	61	47		54	W.	N.	10	14		O.	C.			0.00
Saturday, . . 23,	30.03	58	68	48	44	40		42	N.	N.	12	12		C.	C.			0.00
Week, . . .	29.95		82	58				54										0.01

* O. = Cloudy; C. = Clear; F. = Fair; G. = Fog; H. = Hazy; S. = Smoky; R. = Rain; T. = Threatening; N. = Snow.

Weekly Bulletin

OF THE

STATE BOARD OF HEALTH

OF

MASSACHUSETTS

FOR THE

Week ending Saturday, May 30, 1903.

An official publication of the State Board of Health of Massachusetts, published weekly at the office of the Board, State House, Boston, Mass.

VOL. XXI. No. 22.

Entered at the post-office at Boston as second-class matter.

This publication contains the returns of deaths made each week to the State Board of Health from cities and towns in Massachusetts having over 10,000 inhabitants in each.

It also contains the reports of cases of infectious diseases returned by the boards of health of cities and towns.

Once in each month the work done under the Food and Drug Acts is also reported in this bulletin.

STATE BOARD OF HEALTH.

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JOHN W. BARTOL, M.D., Boston.

SAMUEL W. ABBOTT, M.D., *Secretary.*

MORTALITY OF MASSACHUSETTS

For the Week ending May 30, 1903.

Deaths reported to the State Board of Health in 35 Cities and Greater Towns.

The number of deaths *reported* each week does not exactly correspond with the number which *occurred* during that week, but the discrepancy is a slight one in most cases. The mortality report is published weekly, and contains the returns from such cities and towns having a population of more than 10,000 inhabitants as have sent to the office of the State Board of Health the death returns of the previous week.

We shall esteem it a great favor if all reporting towns will send us their returns weekly, as heretofore, upon postal cards provided for the purpose. A supply of these cards will be sent to any town clerk or health officer who has charge of such returns and is willing to comply with this request.

CITIES AND TOWNS.	*Population. Estimated for 1903.	Reported Deaths in Each.	Deaths under Five Years.	Deaths from Principal Infectious Diseases.	Acute Lung Diseases.	Phthisis.	Diphtheria and Croup.	Whooping-cough.	Scarlet Fever.
Boston,	603,163	183	42	51	23	29	6	2	1
Worcester,	132,044	25	7	3	6	1	1	..	..
Fall River,	115,549	41	21	11	9	2	..	1	2
Lowell,	101,959	27	5	4	2	2	2	..	..
Cambridge,	98,639	24	3	5	4	5	..	..	..
Lynn,	72,497	22	..	..	..	..	..	..	..
Lawrence,	69,766	18	9	6	1	1	2	1	..
Springfield,	69,389	7	2	..	..	..	..	..	..
Somerville,	68,110	..	..	..	..	..	..	..	..
New Bedford,	67,198	32	17	11	5	1	..	..	9
Holyoke,	49,286	16	7	3	5	3	..	..	..
Brockton,	44,873	12	0	3	..	3	..	..	..
Haverhill,	42,104	20	4	5	4	4	..	..	..
Newton,	37,794	4	1	..	..	..	..	..	..
Salem,	36,876	12	4	2	..	1	..	..	..
Malden,	36,286	..	..	..	..	..	..	..	..
Chelsea,	35,876	7	3	..	2	..	..	..	..
Fitchburg,	35,069	6	3	..	..	..	..	..	..
Taunton,	33,656	13	1	1	2	1	..	..	..
Everett,	28,620	8	4	1	..	..	..	1	..
North Adams,	27,862	..	..	..	..	..	..	..	..
Gloucester,	26,121	..	..	..	..	..	..	..	..
Quincy,	26,042	1	..	..	..	..	..	..	..
Waltham,	25,198	5	1	1	..	1	..	..	..
Brookline,	22,608	..	..	..	..	..	..	..	..
Pittsfield,	22,589	11	1	1	2	1	..	..	..
Chicopee,	21,031	9	3	3	..	2	..	..	1
Medford,	20,962	3	..	1	1	..	1	..	..
Northampton,	19,883	8	1	..	..	..	..	..	..
Beverly,	15,302	2	..	1	..	..	..	..	..
Clinton,	15,161	1	..	..	..	..	..	..	..
Leominster,	14,806	..	..	..	..	..	..	..	..
Newburyport,	14,478	..	..	..	..	..	..	..	..
Woburn,	14,300	2	..	..	1	..	..	..	..
Hyde Park,	14,175	..	..	..	..	..	..	..	..
Adams,	13,745	2	2	1	..	..	..	..	1
Attleborough,	13,677	1	..	..	..	..	..	..	..
Marlborough,	13,609	2	0	..	..	..	..	..	..
Melrose,	13,600	..	..	..	..	..	..	..	..
Westfield,	13,418	6	1	..	..	..	..	..	..
Milford,	13,129	..	..	..	..	..	..	..	..
Revere,	12,722	2	..	..	..	..	..	..	..
Framingham,	12,534	..	..	..	..	..	..	..	..
Peabody,	12,179	..	..	..	..	..	..	..	..
Gardner,	11,928	4	..	..	2	..	..	..	..
Weymouth,	11,344	3	1	2	..	1	..	..	..
Southbridge,	11,268	..	..	..	..	..	..	..	..
Watertown,	11,077	2	..	1	..	1	..	..	..
Plymouth,	10,730	..	..	..	..	..	..	..	..

RECAPITULATION.

	Population.	Deaths.	Deaths under Five.	Infectious Diseases.	Acute Lung Diseases.	Phthisis.	Diphtheria and Croup.	Whooping-cough.	Scarlet Fever.
Total of reporting towns,	1,956,346	541	143	117	69	59	12	5	14

Note.—*The populations of the Massachusetts cities were estimated upon the rate of growth from 1895 to 1900, since the State had an intermediate census in 1895. The populations of Gloucester, Marlborough and Newburyport were allowed to stand as in 1900, they having suffered a slight decrease during the five-year period.

Deaths from Prevalent Diseases in 35 Cities and Larger Towns of Massachusetts.

One hundred and seventeen deaths were reported from the principal infectious diseases: measles, 2; scarlet fever, 14; cerebro-spinal meningitis, 2; diphtheria and croup, 12; whooping-cough, 5; typhoid fever, 6; diarrhœal diseases, 16; erysipelas, 1.

No deaths were reported from malarial fever, small-pox, influenza, or puerperal fever.

There were 59 deaths from consumption, acute lung diseases, 69, still-births, 31.

From measles: Boston, 2. From scarlet fever: Boston, 1; Fall River, 2; New Bedford, 9; Chicopee, 1; Adams, 1. From typhoid fever: Boston, 5; Fall River, 1. From cerebro-spinal meningitis: Worcester and Beverly, 1 each. From erysipelas: Fall River, 1.

Deaths under five years of age numbered 143, as compared with 176 for the preceding week.

Deaths from the principal infectious diseases numbered 117, as compared with 130 for the preceding week.

The death rates for the week were: Boston, 15.78; Worcester, 9.84; Fall River, 18.45; Lowell, 13.77; Cambridge, 12.65; Lynn, 15.77; Lawrence, 13.41; Springfield, 5.24; Somerville, ——; New Bedford, 24.76; Holyoke, 16.88; Brockton, 13.91; Haverhill, 24.70; Newton, 5.50; Salem, 16.92; Malden, ——; Chelsea, 10.15; Fitchburg, 8.90; Taunton, 20.08; Everett, 14.54; No. Adams, ——; Gloucester, ——; Quincy, 1.98; Waltham, 10.31; Brookline, ——; Pittsfield, 25.32; Chicopee, 22.26; Medford, 7.44; Northampton, 20.90; Beverly, 6.80; Clinton, 3.43; Leominster, ——; Newburyport, ——; Woburn, 7.27; Hyde Park, ——; Adams, 7.57; Attleborough, 3.80; Marlborough, 7.64; Melrose, ——; Westfield, 23.28; Milford, ——; Revere, 8.19; Framingham, ——; Peabody, ——; Gardner, 17.48; Weymouth, 13.75; Southbridge, ——; Watertown, 9.37; Plymouth, ——.

The total death rate for the week was 14.38, as compared with 16.00 and 16.62 for the previous two weeks.

Cases of Infectious Diseases reported to the State Board of Health during the Week ending May 30, 1903.

(Under the Provisions of section 52 of chapter 75, of the Revised Laws of Massachusetts.)

Scarlet fever, ...	152	Typhoid fever, ...	42
Diphtheria and croup, ...	121	Measles, ...	213
Small-pox, ...	25		

(SIGNED) S. W. ABBOTT, M.D.,
Secretary of the State Board of Health.

The Meteorological Record for the Week, in Boston, was as follows:

DATE.	BAROM-ETER.	THER-MOMETER.			RELATIVE HUMIDITY.			DIRECTION OF WIND.		VELOCITY OF WIND.		STATE OF WEATHER.*		RAIN-FALL.	
Week ending Saturday, May 30, 1903.	MEAN.	MEAN.	MAXIMUM.	MINIMUM.	8 A.M.	8 P.M.	MEAN.	8 A.M.	8 P.M.	8 A.M.	8 P.M.	8 A.M.	8 P.M.	DURATION.	AMOUNT IN INCHES.
Sunday, . . 24,	30.18	52	60	44	49	55	52	E.	S. W.	8	13	F.	O.		0.00
Monday, . . 25,	30.31	52	58	46	58	58	58	N.	S.	7	9	C.	C.		0.00
Tuesday, . . 26,	30.38	58	68	47	49	50	50	S. W.	S.	6	12	C.	C.		0.00
Wednesday, . 27,	30.23	62	73	50	72	75	74	S. W.	S. W.	13	13	F.	C.		0.00
Thursday, . . 28,	30.07	68	75	62	76	85	80	S. W.	S. W.	14	19	O.	O.		0.06
Friday, . . 29,	30.12	70	79	61	42	49	46	W.	N. W.	8	6	C.	O.		T
Saturday, . . 30,	30.11	58	67	50	90	50	70	N. E.	N.	10	9	R.	C.		0.00
Week, . . .	30.20		69	51			61								0.06

* O. = Cloudy; C. = Clear; F. = Fair; G. = Fog; H. = Hazy; S. = Smoky; R. = Rain; T. = Threatening; N. = Snow.

Weekly Bulletin

OF THE

STATE BOARD OF HEALTH

OF

MASSACHUSETTS

FOR THE

Week ending Saturday, June 6, 1903.

An official publication of the State Board of Health of Massachusetts, published weekly at the office of the Board, State House, Boston, Mass.

VOL. XXI. No. 23.

Entered at the post-office at Boston as second-class matter.

This publication contains the returns of deaths made each week to the State Board of Health from cities and towns in Massachusetts having over 10,000 inhabitants in each.

It also contains the reports of cases of infectious diseases returned by the boards of health of cities and towns.

Once in each month the work done under the Food and Drug Acts is also reported in this bulletin.

STATE BOARD OF HEALTH.

HENRY P. WALCOTT, M.D., Cambridge, *Chairman.*
JULIAN A. MEAD, M.D., Watertown.
HIRAM F. MILLS, C.E., Lawrence.
GERARD C. TOBEY, Esq., Wareham.
JAMES W. HULL, Pittsfield.
CHARLES H. PORTER, Quincy.
JOHN W. BARTOL, M.D., Boston.

SAMUEL W. ABBOTT, M.D., *Secretary.*

MORTALITY OF MASSACHUSETTS

For the Week ending June 6, 1903.

Deaths reported to the State Board of Health in 43 Cities and Greater Towns.

The number of deaths *reported* each week does not exactly correspond with the number which *occurred* during that week, but the discrepancy is a slight one in most cases. The mortality report is published weekly, and contains the returns from such cities and towns having a population of more than 10,000 inhabitants as have sent to the office of the State Board of Health the death returns of the previous week.

We shall esteem it a great favor if all reporting towns will send us their returns weekly, as heretofore, upon postal cards provided for the purpose. A supply of these cards will be sent to any town clerk or health officer who has charge of such returns and is willing to comply with this request.

CITIES AND TOWNS.	*Population. Estimated for 1903.	Reported Deaths in Each.	Deaths under Five Years.	Deaths from					
				Principal Infectious Diseases.	Acute Lung Diseases.	Phthisis.	Diphtheria and Croup.	Diarrhœal Diseases.	Scarlet Fever.
Boston,	603,163	168	44	49	21	25	4	9	3
Worcester,	132,044	30	11	1	7	..	..	..	..
Fall River,	115,549	21	7	5	3	4	1	..	..
Lowell,	101,959	27	5	4	7	4	..	..	..
Cambridge,	98,639	18	5	2	2	2	..	..	..
Lynn,	72,497	16	4	1	..	..	..	..	..
Lawrence,	69,766	15	4	3	..	2	..	1	..
Springfield,	69,389	29	7	6	2	2	..	1	1
Somerville,	68,110	14	4	2	5	..	..	2	..
New Bedford,	67,198	27	11	10	2	1	..	1	7
Holyoke,	49,286	11	6	2	1	..	..	1	1
Brockton,	44,873	9	4	2	..	1	..	..	1
Haverhill,	42,104	9	2	1	1	..	..	..	..
Newton,	37,794	6	..	..	..	..	..	..	..
Salem,	36,876	10	2	..	..	..	..	..	..
Malden,	36,286	7	1	1	1	1	..	..	..
Chelsea,	35,876	8	0	1	..	1	..	..	..
Fitchburg,	35,069	6	1	1	1	1	..	..	..
Taunton,	33,656	16	..	2	4	2	..	..	..
Everett,	28,620	5	1	1	..	1	..	..	..
North Adams,	27,862	7	1	3	..	2	..	1	..
Gloucester,	26,121	5	..	2	..	..	2	..	..
Quincy,	26,042	4	..	..	1	..	..	..	..
Waltham,	25,198	5	1	1	..	..	..	..	1
Brookline,	22,608	..	..	..	..	..	..	..	..
Pittsfield,	22,589	7	..	3	1	..	..	..	..
Chicopee,	21,031	14	6	5	..	1	..	..	3
Medford,	20,962	2	..	1	..	..	..	..	..
Northampton,	19,883	5	4	4	..	..	2	..	..
Beverly,	15,302	3	1	..	..	..	..	..	..
Clinton,	15,161	4	0	..	..	..	..	..	..
Leominster,	14,806	0	..	..	..	..	..	..	..
Newburyport,	14,478	7	3	2	..	..	1	..	..
Woburn,	14,300	4	2	2	1	2	..	..	..
Hyde Park,	14,175	..	..	..	..	..	..	..	..
Adams,	13,745	..	..	..	..	..	..	..	..
Attleborough,	13,677	1	1	1	..	..	..	..	..
Marlborough,	13,609	3	0	2	..	1	..	..	..
Melrose,	13,600	..	..	..	..	..	..	..	..
Westfield,	13,418	2	2	1	..	..	..	1	..
Milford,	13,129	..	..	..	..	..	..	..	..
Revere,	12,722	3	..	1	..	1	..	..	..
Framingham,	12,534	1	..	1	..	..	..	..	..
Peabody,	12,179	..	..	..	..	..	..	..	..
Gardner,	11,928	2	1	..	1	..	..	..	..
Weymouth,	11,344	5	1	2	1	1	1	..	..
Southbridge,	11,268	2	..	1	..	..	..	..	..
Watertown,	11,077	0	..	..	..	..	..	..	..
Plymouth,	10,730	1	..	..	..	..	..	..	..

RECAPITULATION.

	Population.	Deaths.	Deaths under Five.	Infectious Diseases.	Acute Lung Diseases.	Phthisis.	Diphtheria and Croup.	Diarrhœal Diseases.	Scarlet Fever.
Total of reporting towns,	2,164,796	539	142	126	62	55	11	17	17

Note.—*The populations of the Massachusetts cities were estimated upon the rate of growth from 1895 to 1900, since the State had an intermediate census in 1895. The populations of Gloucester, Marlborough and Newburyport were allowed to stand as in 1900, they having suffered a slight decrease during the five-year period.

Deaths from Prevalent Diseases in 43 Cities and Larger Towns of Massachusetts.

One hundred and twenty-six deaths were reported from the principal infectious diseases: measles, 6; scarlet fever, 17; cerebro-spinal meningitis, 6: diphtheria and croup, 11; whooping-cough, 6; typhoid fever, 3; diarrhœal diseases, 17; erysipelas, 3; puerperal fever, 1; influenza, 1.

No deaths were reported from malarial fever or small-pox.

There were 55 deaths from consumption, acute lung diseases, 62, still-births, 31.

From measles: Boston, 2; Springfield, 2; Northampton, 2. From scarlet fever: Boston, 3; New Bedford, 7; Chicopee, 3; and Springfield, Holyoke, Brockton and Waltham, 1 each. From typhoid fever: Boston, 2; Haverhill, 1. From cerebro-spinal meningitis: Boston, 1; Pittsfield, 3; Medford and Marlborough, 1 each. From erysipelas: Boston, Lynn and Chicopee, 1 each.

Deaths under five years of age numbered 142, as compared with 143 for the preceding week.

Deaths from the principal infectious diseases numbered 126, as compared with 117 for the preceding week.

The death rates for the week were: Boston, 14.48; Worcester, 11.81; Fall River, 9.45; Lowell, 13.77; Cambridge, 9.49; Lynn, 11.47; Lawrence, 11.18; Springfield, 21.73; Somerville, 10.69; New Bedford, 20.89; Holyoke, 11.60; Brockton, 10.43; Haverhill, 11.11; Newton, 8.25; Salem, 14.10; Malden, 10.03; Chelsea, 11.60; Fitchburg, 8.90; Taunton, 24.72; Everett, 9.09; No. Adams, 13.06; Gloucester, 9.96; Quincy, 7.99; Waltham, 10.31; Brookline, ——; Pittsfield, 16.11; Chicopee, 34.62; Medford, 4.96; Northampton, 13.06; Beverly, 10.20; Clinton, 13.72; Leominster, ——; Newburyport, 25.14; Woburn, 14.54; Hyde Park, ——; Adams, ——; Attleborough, 3.80; Marlborough, 11.47; Melrose, ——; Westfield, 7.76; Milford, ——; Revere, 12.28; Framingham, 4.16; Peabody, ——; Gardner, 8.74; Weymouth, 22.92; Southbridge, 9.23; Watertown, ——; Plymouth, 4.85.

The total death rate for the week was 12.95, as compared with 14.38 and 16.00 for the previous two weeks.

Cases of Infectious Diseases reported to the State Board of Health during the Week ending June 6, 1903.

(Under the Provisions of section 32 of chapter 75, of the Revised Laws of Massachusetts.)

Scarlet fever,	159	Typhoid fever,	24
Diphtheria and croup,	128	Measles,	245
Small-pox,	29		

(SIGNED) **S. W. ABBOTT, M.D.,**
Secretary of the State Board of Health.

The Meteorological Record for the Week, in Boston, was as follows:

DATE.	BAROM-ETER.	THER-MOMETER.			RELATIVE HUMIDITY.			DIRECTION OF WIND.		VELOCITY OF WIND.		STATE OF WEATHER.*		RAIN-FALL.	
Week ending Saturday, June 6, 1903.	MEAN.	MEAN.	MAXIMUM.	MINIMUM.	8 A.M.	8 P.M.	MEAN.	8 A.M.	8 P.M.	8 A.M.	8 P.M.	8 A.M.	8 P.M.	DURATION.	AMOUNT IN INCHES.
Sunday, May 31,	30.26	52	58	47	53	71	62	N. E.	S. E.	6	3	C.	C.		0.00
Monday, June 1,	30.28	60	71	49	55	56	56	N. E.	S. W.	7	12	C.	C.		0.00
Tuesday, 2,	30.24	60	68	52	43	40	42	N. E.	S. W.	10	12	C.	C.		0.00
Wednesday, 3,	30.00	70	85	54	49	34	42	W.	N.	14	11	C.	C.		0.00
Thursday, 4,	30.26	60	67	54	38	61	50	N.	S. E.	10	8	S.	C.		0.00
Friday, 5,	30.38	62	73	50	70	57	64	W.	S. W.	2	9	F.	C.		0.00
Saturday, 6,	30.38	64	75	54	74	71	72	S. W.	S. W.	8	12	F.	S.		0.00
Week,	30.26		71	51			55								0.00

* O. = Cloudy; C. = Clear; F. = Fair; G. = Fog; H. = Hazy; S. = Smoky; R. = Rain; T. = Threatening; N. = Snow.

Weekly Bulletin

OF THE

STATE BOARD OF HEALTH

OF

MASSACHUSETTS

FOR THE

Week ending Saturday, June 13, 1903.

An official publication of the State Board of Health of Massachusetts, published weekly at the office of the Board, State House, Boston, Mass.

VOL. XXI. No. 24.

Entered at the post-office at Boston as second-class matter.

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Once in each month the work done under the Food and Drug Acts is also reported in this bulletin.

STATE BOARD OF HEALTH.

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SAMUEL W. ABBOTT, M.D., *Secretary.*

MORTALITY OF MASSACHUSETTS

For the Week ending June 13, 1903.

Deaths reported to the State Board of Health in 39 Cities and Greater Towns.

The number of deaths *reported* each week does not exactly correspond with the number which *occurred* during that week, but the discrepancy is a slight one in most cases. The mortality report is published weekly, and contains the returns from such cities and towns having a population of more than 10,000 inhabitants as have sent to the office of the State Board of Health the death returns of the previous week.

We shall esteem it a great favor if all reporting towns will send us their returns weekly, as heretofore, upon postal cards provided for the purpose. A supply of these cards will be sent to any town clerk or health officer who has charge of such returns and is willing to comply with this request.

CITIES AND TOWNS.	*Population. Estimated for 1903.	Reported Deaths in Each.	Deaths under Five Years.	Deaths from					
				Principal Infectious Diseases.	Acute Lung Diseases.	Phthisis.	Diphtheria and Croup.	Diarrhœal Diseases.	Scarlet Fever.
Boston,	603,163	189	38	36	23	24	2	2	1
Worcester,	132,044	38	15	5	5	2	..	3	..
Fall River,	115,549	34	12	8	7	5	..	3	..
Lowell,	101,959	25	7	2	2	1	1	..	..
Cambridge,	98,639	15	3	4	2	3	..	..	..
Lynn,	72,497	18	2	1	..	1	..	..	..
Lawrence,	69,766	20	9	6	4	3	2	1	..
Springfield,	69,389	18	4	4	..	2	..	1	1
Somerville,	68,110	12	2	2	6	1	..	..	..
New Bedford,	67,198	30	11	9	8	2	..	1	4
Holyoke,	49,286	..	..	..	..	..	..	..	..
Brockton,	44,873	6	0	..	..	..	..	..	..
Haverhill,	42,104	14	..	2	1	2	..	..	..
Newton,	37,794	8	1	..	..	..	..	..	..
Salem,	36,876	10	2	3	1	1	2	..	..
Malden,	36,286	8	1	1	..	1	..	..	..
Chelsea,	35,876	8	2	2	..	2	..	..	..
Fitchburg,	35,069	3	..	..	..	..	..	..	..
Taunton,	33,656	11	4	5	..	4	1	..	..
Everett,	28,620	8	2	2	..	2	..	..	..
North Adams,	27,862	4	1	..	1	..	..	..	..
Gloucester,	26,121	2	1	1	..	..	1	..	..
Quincy,	26,042	1	..	..	..	..	..	..	..
Waltham,	25,198	10	3	3	..	1	1	..	..
Brookline,	22,608	..	..	..	..	..	..	..	..
Pittsfield,	22,589	9	1	..	1	..	..	..	..
Chicopee,	21,031	5	3	..	..	..	..	..	..
Medford,	20,962	3	..	..	1	..	..	..	..
Northampton,	19,883	6	2	..	..	..	..	..	..
Beverly,	15,302	8	2	2	..	1	..	..	..
Clinton,	15,161	3	0	1	..	..	1	..	..
Leominster,	14,806	..	..	..	..	..	..	..	..
Newburyport,	14,478	..	..	..	..	..	..	..	..
Woburn,	14,300	6	..	2	..	2	..	..	..
Hyde Park,	14,175	..	..	..	..	..	..	..	..
Adams,	13,745	2	..	..	..	..	..	..	..
Attleborough,	13,677	..	..	..	..	..	..	..	..
Marlborough,	13,609	3	0	1	..	1	..	..	..
Melrose,	13,600	4	..	1	..	1	..	..	..
Westfield,	13,418	5	1	1	..	..	..	1	..
Milford,	13,129	..	..	..	..	..	..	..	..
Revere,	12,722	1	1	..	..	..	..	..	..
Framingham,	12,534	2	1	..	1	..	..	..	..
Peabody,	12,179	..	..	..	..	..	..	..	..
Gardner,	11,928	1	..	..	..	..	..	..	..
Weymouth,	11,344	2	1	1	..	..	..	..	..
Southbridge,	11,268	..	..	..	..	..	..	..	..
Watertown,	11,077	1	1	..	1	..	..	..	..
Plymouth,	10,730	..	..	..	..	..	..	..	..

RECAPITULATION.

	Population.	Deaths.	Deaths under Five.	Infectious Diseases.	Acute Lung Diseases.	Phthisis.	Diphtheria and Croup.	Diarrhœal Diseases.	Scarlet Fever.
Total of reporting towns,	2,077,896	553	133	105	64	62	11	12	6

Note.—*The populations of the Massachusetts cities were estimated upon the rate of growth from 1895 to 1900, since the State had an intermediate census in 1895. The populations of Gloucester, Marlborough and Newburyport were allowed to stand as in 1900, they having suffered a slight decrease during the five-year period.

Deaths from Prevalent Diseases in 39 Cities and Larger Towns of Massachusetts.

One hundred and five deaths were reported from the principal infectious diseases: measles, 3; scarlet fever, 6; cerebro-spinal meningitis, 5; diphtheria and croup, 11; whooping-cough, 2; typhoid fever, 2; diarrhœal diseases, 12; erysipelas, 1; influenza, 1.

No deaths were reported from malarial fever, small-pox, or puerperal fever.

There were 62 deaths from consumption, acute lung diseases, 64, still-births, 40.

From measles: Boston, Cambridge and Beverly, 1 each. From scarlet fever: Boston, 1; New Bedford, 4; Springfield, 1. From erysipelas: Boston, 1. From typhoid fever: Boston and New Bedford, 1 each. From cerebro-spinal meningitis: Boston, 2; Somerville, Waltham and Weymouth, 1 each. From influenza: New Bedford, 1.

Deaths under five years of age numbered 133, as compared with 142 for the preceding week.

Deaths from the principal infectious diseases numbered 105, as compared with 126 for the preceding week.

The death rates for the week were: Boston, 16.29; Worcester, 14.96; Fall River, 15.30; Lowell, 12.75; Cambridge, 7.91; Lynn, 12.91; Lawrence, 14.91; Springfield, 13.48; Somerville, 9.16; New Bedford, 23.21; Holyoke, ——; Brockton, 6.95; Haverhill, 17.29; Newton, 11.00; Salem, 14.10; Malden, 11.46; Chelsea, 11.60; Fitchburg, 4.45; Taunton, 17.00; Everett, 14.54; No. Adams, 7.46; Gloucester, 3.98; Quincy, 2.00; Waltham, 20.63; Brookline, ——; Pittsfield, 20.42; Chicopee, 12.36; Medford, 7.44; Northampton, 15.68; Beverly, 27.19; Clinton, 10.29; Leominster, ——; Newburyport, ——; Woburn, 20.02; Hyde Park, ——; Adams, 7.57; Attleborough, ——; Marlborough, 11.47; Melrose, 15.29; Westfield, 19.40; Milford, ——; Revere, 4.09; Framingham, 8.32; Peabody, ——; Gardner, 4.37; Weymouth, 9.17; Southbridge, ——; Watertown, 4.68; Plymouth, ——.

The total death rate for the week was 13.84, as compared with 12.95 and 14.38 for the previous two weeks.

Cases of Infectious Diseases reported to the State Board of Health during the Week ending June 13, 1903.

(Under the Provisions of section 52 of chapter 75, of the Revised Laws of Massachusetts.)

Scarlet fever,	106	Typhoid fever,	38
Diphtheria and croup,	117	Measles,	235
Small-pox,	6		

(SIGNED) S. W. ABBOTT, M.D.,
Secretary of the State Board of Health.

The Meteorological Record for the Week, in Boston, was as follows:

DATE.	BAROM-ETER.	THER-MOMETER.			RELATIVE HUMIDITY.			DIRECTION OF WIND.		VELOCITY OF WIND.		STATE OF WEATHER.*		RAIN-FALL.	
Week ending Saturday, June 13, 1903.	MEAN.	MEAN.	MAXIMUM.	MINIMUM.	8 A.M.	8 P.M.	MEAN.	8 A.M.	8 P.M.	8 A.M.	8 P.M.	8 A.M.	8 P.M.	DURATION.	AMOUNT IN INCHES.
Sunday, 7,	30.13	64	70	58	92	87	90	S. W.	S.	8	7	O.	F.		0.00
Monday, 8,	29.99	67	75	59	89	100	94	S.	S. E.	5	8	O.	R.		0.27
Tuesday, 9,	29.95	66	70	63	90	92	91	S. W.	S. E.	8	5	O.	O.		0.17
Wednesday, 10,	30.03	64	67	60	97	94	96	N. E.	E.	2	5	O.	O.		0.00
Thursday, 11,	29.99	60	62	57	98	97	98	E.	E.	2	8	G.	G.		T
Friday, 12,	29.75	60	64	57	99	98	98	E.	S. E.	11	10	R.	R.		0.39
Saturday, 13,	29.76	64	73	54	100	73	86	E.	S.	10	8	G.	C.		0.38
Week,	29.94		69	58			93								1.21

* O. = Cloudy; C. = Clear; F. = Fair; G. = Fog; H. = Hazy; S. = Smoky; R. = Rain; T. = Threatening; N. = Snow.

INSPECTION OF FOOD AND DRUGS.

The following summary presents the results of the examinations of Food and Drugs by the State Board of Health in the month of May, 1903: —

ARTICLES EXAMINED.	Number found to be of good quality.	Number adulterated or varying from the legal standard.	TOTAL.	ARTICLES EXAMINED.	Number found to be of good quality.	Number adulterated or varying from the legal standard.	TOTAL.
Milk, . . .	496	69	565	Canned Goods, .	..	..	..
Butter, . . .	2	2	4	Honey, . . .	6	4	10
Cheese, . . .	4	6	10	Tea, . . .	2	..	2
Lard, . . .	..	..	..	Coffee, . . .	3	..	3
Olive Oil, . . .	..	..	..	Cocoa and Chocolate,	1	2	3
Vinegar, . . .	2	..	2	Confectionery, .	2	..	2
Spices, . . .	108	15	123	Vanilla Extract, .	3	1	4
Cream of Tartar, .	19	..	19	Lemon Extract, .	1	2	3
Molasses, . . .	..	..	..	Condensed Milk, .	5	1	6
Syrups, . . .	..	..	..	Miscellaneous, .	10	14	24
Maple Sugar, . .	..	..	..	Drugs, . . .	78	54	132
Maple Syrup, . .	8	2	10				
				Totals, . .	750	172	922

Percentage of adulteration, 18.7. The actual ratio of adulteration is very much less than this, since it is only suspicious articles of food to which the attention of the Board is directed. Certain staple products, such as sugar, flour, and the various other cereal products, are very rarely adulterated and require but little inspection. The work of the Board is therefore mainly devoted to the inspection of such articles as it has found, by several years of experience, to be especially liable to adulteration.

The ratio of samples of milk found to be below the standard was 12.2 per cent., while the percentage of articles of food was 21.8 per cent.

Thirteen complaints were entered in the courts during the month for violation of the laws relative to the inspection of Food and Drugs.

The samples of drugs found to be adulterated were Capsicum, Cera Alba, Cera Flava, Glycerinum, Oleum Olivæ, Opii Pulvis, Phenacetine, Sulphur Lotum, Sulphur Præcipitatum and Tinctura Iodi.

Cities and towns from which samples of food were collected were Boston, Somerset, Quincy, Concord, Fall River, Brookline, Dedham, Hyde Park, Cambridge, Taunton, Revere, Clinton, New Bedford, Worcester, Winthrop, Somerville, Malden, Everett, Springfield, Chelsea, Salem, Newburyport, Lawrence, Methuen, Haverhill, Gloucester, Waltham, Chicopee, Northampton, Beverly, Marlborough, Westfield, Whitman and Saugus.

RECORD OF PROSECUTIONS IN MAY, 1903.

No.	Date of Trial.	Name of Defendant.	Place.	Character of Articles Sold.	Result of Trial.
1	May 1,	Frank Silva,	Fall River,	Milk,	Conviction.*
2	May 1,	A. C. Beauparland,	Fall River,	Milk,	Conviction.*
3	May 1,	Richard Bright,	Tiverton, R. I.,	Milk,	Nol Prossed.
4	May 1,	Richard Bright,	Tiverton, R. I.,	Milk (Colored),	Nol Prossed.
5	May 1,	John D. Chase,	Fall River,	Milk (Colored),	Discharged.
6	May 1,	John D. Chase,	Fall River,	Milk,	Conviction.
7	May 2,	Willis H. White,	Maynard,	Milk,	Conviction.
8	May 8,	John C. Moynihan,	Maynard,	Milk,	Conviction.
9	May 12,	Moses S. Rosenfield,	Boston,	Cream cheese,	Conviction.
10	May 14,	Geo. D. Newcomb,	Quincy,	Milk,	Conviction.
11	May 14,	Daniel Sands,	Quincy,	Milk,	Conviction.
12	May 15,	Charles H. Chase,	Swansea,	Milk,	Conviction.*
13	May 15,	Charles H. Chase,	Swansea,	Milk (Colored),	Conviction.*

* Plead Guilty.

Total amount of fines, $252.30.

The total solids in samples of milk, upon which the foregoing cases were entered, were as follows: — 10.00 — 11.03 — 9.70 — 9.70 — 10.34 — 11.35 — 11.31 — 11.30.

Commonwealth of Massachusetts.—State Board of Health.

Publication of Results of Analyses of Certain Articles of Food, required by Chapter 272, of the Acts of 1902.

For the Month of May, 1903.

Number of Sample.	Date of Collection.	City or Town where Purchased.	Character of Sample.	Brand or Name of Manufacturer, Wholesaler or Producer.	Results of Analyses.
47276	May 12.	Boston.	Cheese.	"Royal Neufchatel"	Skim Milk Cheese. Fat 8.00 %.
47277	May 12.	Boston.	Cheese.	"Crescent Neufchatel"	Skim Milk Cheese. Fat 10.80 %.
1636 K	May 13.	Hyde Park.	Evaporated Cream.	"Silver Cow" brand. St. Charles Condensed Milk Co., St. Charles, Ill.	Condensed skimmed milk. Fat 6.15 %. Fat in original milk 2.80 %.
7687 L	May 6.	Boston.	Honey.	"Clover Blossom". Clover Honey Co., San Francisco, Cal.	Admixture of cane sugar and glucose.
7819 L	May 11.	Cambridge.	Honey.	"White Sage California". Mountain Honey Co., San Diego, Cal.	Admixture of cane sugar and glucose.
1334 K	April 29.	Boston.	Honey.	"Orange Blossom". Ayer Preserving Co., Ayer, Mass.	Admixture of cane sugar and glucose.
8181 L	May 23.	Winthrop.	Baking Powder.	"Boston". Boston Baking Powder Co., Boston, Mass.	Contains Alum and Phosphate. No label with name of ingredients.
7065 L	March 30.	No. Adams.	Pepper.	W. G. Baker, Springfield.	Added pepper shells.
47312	May 15.	Springfield.	Mustard.	W. H. Gilbert & Co., Springfield.	Large admixture of starch and turmeric.
1518 K	May 9.	Fall River.	Mustard.	Helmet Brand, E. R. Durkee & Co., N. Y.	Admixture of foreign starch-containing seed.
47323	May 15.	Springfield.	Cocoa.	Health Brand, Lewis de Groff & Son, N. Y.	Admixture of wheat.
47279	May 12.	Boston.	Cocoa.	Grave & Martin Co., N. Y.	Large admixture of wheat.
47315	May 16.	Springfield.	Lemon Extract.	Royal Worcester Extract Co., Worcester.	0.12 % lemon oil, 52.62 % alcohol. No formula.
1516 K	May 9.	Fall River.	Lemon Extract.	"Harris Pure," Frank E. Harris, Binghampton, N. Y.	3.3 % lemon oil, 87.85 % alcohol. No formula.
1514 K	May 9.	Fall River.	Vanilla Extract.	St. John & Co., N. Y.	Contains coumarin. No formula.
8183 L	May 28.	Boston.	Ginger Ale.	Cliquot Club Co., Millis.	Contains benzoic acid. No formula.

Weekly Bulletin

OF THE

STATE BOARD OF HEALTH

OF

MASSACHUSETTS

FOR THE

Week ending Saturday, June 20, 1903.

An official publication of the State Board of Health of Massachusetts, published weekly at the office of the Board, State House, Boston, Mass.

VOL. XXI. No. 25.

Entered at the post-office at Boston as second-class matter.

This publication contains the returns of deaths made each week to the State Board of Health from cities and towns in Massachusetts having over 10,000 inhabitants in each.

It also contains the reports of cases of infectious diseases returned by the boards of health of cities and towns.

Once in each month the work done under the Food and Drug Acts is also reported in this bulletin.

STATE BOARD OF HEALTH.

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SAMUEL W. ABBOTT, M.D., *Secretary.*

MORTALITY OF MASSACHUSETTS

For the Week ending June 20, 1903.

Deaths reported to the State Board of Health in 38 Cities and Greater Towns.

The number of deaths *reported* each week does not exactly correspond with the number which *occurred* during that week, but the discrepancy is a slight one in most cases. The mortality report is published weekly, and contains the returns from such cities and towns having a population of more than 10,000 inhabitants as have sent to the office of the State Board of Health the death returns of the previous week.

We shall esteem it a great favor if all reporting towns will send us their returns weekly, as heretofore, upon postal cards provided for the purpose. A supply of these cards will be sent to any town clerk or health officer who has charge of such returns and is willing to comply with this request.

CITIES AND TOWNS.	*Population. Estimated for 1903.	Reported Deaths in Each.	Deaths under Five Years.	Deaths from: Principal Infectious Diseases.	Acute Lung Diseases.	Phthisis.	Diphtheria and Croup.	Diarrhœal Diseases.	Scarlet Fever.
Boston,	603,163	154	45	32	19	20	2	3	1
Worcester,	132,044	33	15	8	3	3	..	2	..
Fall River,	115,549	41	23	10	6	4	..	4	..
Lowell,	101,959	34	12	6	4	3	1	1	..
Cambridge,	98,639	23	4	6	..	3	..	1	1
Lynn,	72,497	17	4	3	..	..	..	..	..
Lawrence,	69,766	25	12	6	2	4	1	..	1
Springfield,	69,389	17	6	4	1	2	..	1	..
Somerville,	68,110	9	3	1	..	1	..	..	..
New Bedford,	67,198	21	8	11	2	2	..	..	9
Holyoke,	49,286	16	9	1	..	..	1	..	..
Brockton,	44,873	7	1	1	..	1	..	..	..
Haverhill,	42,104	12	2	5	..	3	1	..	..
Newton,	37,794	7	1	..	1	..	..	..	..
Salem,	36,876	9	2	..	1	..	..	..	..
Malden,	36,286	11	4	2	..	1	..	..	..
Chelsea,	35,876	7	2	1	..	..	..	..	1
Fitchburg,	35,069	..	..	..	..	..	..	..	..
Taunton,	33,656	10	3	3	..	1	1	..	..
Everett,	28,620	4	..	1	..	1	..	..	..
North Adams,	27,862	3	..	2	..	1	1	..	..
Gloucester,	26,121	3	..	2	..	2	..	..	..
Quincy,	26,042	7	2	..	1	..	..	..	..
Waltham,	25,198	3	1	1	..	..	..	..	..
Brookline,	22,608	3	..	1	..	..	..	..	1
Pittsfield,	22,589	6	3	..	2	..	..	..	..
Chicopee,	21,031	5	2	..	..	..	..	..	..
Medford,	20,962	2	..	..	..	..	..	..	..
Northampton,	19,883	4	0	1	..	1	..	..	..
Beverly,	15,302	4	1	1	..	..	..	..	..
Clinton,	15,161	2	..	..	2	..	..	..	..
Leominster,	14,806	..	..	..	..	..	..	..	..
Newburyport,	14,478	2	1	..	..	..	..	..	..
Woburn,	14,300	1	1	..	..	..	..	..	..
Hyde Park,	14,175	..	..	..	..	..	..	..	..
Adams,	13,745	..	..	..	..	..	..	..	..
Attleborough,	13,677	3	..	..	1	..	..	..	..
Marlborough,	13,609	..	..	..	..	..	..	..	..
Melrose,	13,600	2	..	..	..	..	..	..	..
Westfield,	13,418	6	2	1	1	..	..	..	..
Milford,	13,129	..	..	..	..	..	..	..	..
Revere,	12,722	..	..	..	..	..	..	..	..
Framingham,	12,534	..	..	..	..	..	..	..	..
Peabody,	12,179	..	..	..	..	..	..	..	..
Gardner,	11,928	..	..	..	..	..	..	..	..
Weymouth,	11,344	2	0	..	..	..	..	..	..
Southbridge,	11,268	..	..	..	..	..	..	..	..
Watertown,	11,077	3	..	..	..	..	..	..	..
Plymouth,	10,730	2	1	1	..	1	..	..	..

RECAPITULATION.

	Population.	Deaths.	Deaths under Five.	Infectious Diseases.	Acute Lung Diseases.	Phthisis.	Diphtheria and Croup.	Diarrhœal Diseases.	Scarlet Fever.
Total of reporting towns,	2,089,068	520	170	111	46	54	8	12	14

Note.—*The populations of the Massachusetts cities were estimated upon the rate of growth from 1895 to 1900, since the State had an intermediate census in 1895. The populations of Gloucester, Marlborough and Newburyport were allowed to stand as in 1900, they having suffered a slight decrease during the five-year period.

Deaths from Prevalent Diseases in 38 Cities and Larger Towns of Massachusetts.

One hundred and eleven deaths were reported from the principal infectious diseases: measles, 6; scarlet fever, 14; cerebro-spinal meningitis, 3; diphtheria and croup, 8; whooping-cough, 7; typhoid fever, 5; diarrhœal diseases, 12; erysipelas, 1; puerperal fever, 1.

No deaths were reported from malarial fever, small-pox, or influenza.

There were 54 deaths from consumption, acute lung diseases, 46, still-births, 43.

From measles: Boston, 2; Worcester, Fall River, Springfield and Westfield, 1 each. From scarlet fever: New Bedford, 9; Boston, Cambridge, Lawrence, Chelsea and Brookline, 1 each. From typhoid fever: Boston, Cambridge, Lynn, Haverhill and Malden, 1 each. From cerebro-spinal meningitis: Boston, 1; Worcester, 2. From erysipelas: Boston, 1.

Deaths under five years of age numbered 170, as compared with 133 for the preceding week.

Deaths from the principal infectious diseases numbered 111, as compared with 105 for the preceding week.

The death rates for the week were: Boston, 13.27; Worcester, 13.00; Fall River, 18.45; Lowell, 17.34; Cambridge, 12.12; Lynn, 12.19; Lawrence, 18.63; Springfield, 12.74; Somerville, 6.87; New Bedford, 16.25; Holyoke, 16.88; Brockton, 8.11; Haverhill, 14.82; Newton, 9.62; Salem, 12.69; Malden, 15.76; Chelsea, 10.15; Fitchburg, ——; Taunton, 15.45; Everett, 7.27; No. Adams, 5.60; Gloucester, 5.98; Quincy, 13.98; Waltham, 6.19; Brookline, 6.90; Pittsfield, 13.81; Chicopee, 12.36; Medford, 4.96; Northampton, 10.45; Beverly, 13.60; Clinton, 6.86; Leominster, ——; Newburyport, 7.18; Woburn, 3.64; Hyde Park, ——; Adams, ——; Attleborough, 11.40; Marlborough, ——; Melrose, 7.46; Westfield, 23.28; Milford, ——; Revere, ——; Framingham, ——; Peabody, ——; Gardner, ——; Weymouth, 9.17; Southbridge, ——; Watertown, 14.05; Plymouth, 9.69.

The total death rate for the week was 12.95, as compared with 13.84 and 12.95 for the previous two weeks.

Cases of Infectious Diseases reported to the State Board of Health during the Week ending June 20, 1903.

(Under the Provisions of section 52 of chapter 75, of the Revised Laws of Massachusetts.)

Scarlet fever,	121	Typhoid fever,	65
Diphtheria and croup,	108	Measles,	210
Small-pox,	3		

(SIGNED) **S. W. ABBOTT, M.D.,**
Secretary of the State Board of Health.

The Meteorological Record for the Week, in Boston, was as follows:

DATE.	BAROM-ETER.	THER-MOMETER.			RELATIVE HUMIDITY.			DIRECTION OF WIND.		VELOCITY OF WIND.		STATE OF WEATHER.*		RAIN-FALL.	
Week ending Saturday, June 20, 1903.	MEAN.	MEAN.	MAXIMUM.	MINIMUM.	8 A.M.	8 P.M.	MEAN.	8 A.M.	8 P.M.	8 A.M.	8 P.M.	8 A.M.	8 P.M.	DURATION.	AMOUNT IN INCHES.
Sunday, 14,	29.80	62	70	54	81	81	81	S.	S. E.	3	8	F.	O.		0.00
Monday, 15,	29.69	53	56	50	94	90	92	N.	N. E.	9	25	R.	R.		2.45
Tuesday, 16,	29.84	51	54	48	90	78	84	N. E.	N.	15	8	O.	O.		0.11
Wednesday, 17,	29.94	54	59	50	72	81	76	N. E.	E.	6	8	O.	F.		0.00
Thursday, 18,	30.00	56	59	52	88	80	84	S. E.	S.	6	5	O.	O.		T
Friday, 19,	29.92	58	65	51	83	81	82	S.	S.	7	11	O.	F.		0.00
Saturday, 20,	29.88	58	62	53	83	91	87	S.	E.	4	13	O.	R.		0.02
Week,	29.87		61	51			84								2.58

* O. = Cloudy; C. = Clear; F. = Fair; G. = Fog; H. = Hazy; S. = Smoky; R. = Rain; T. = Threatening; N. = Snow.

Weekly Bulletin

OF THE

STATE BOARD OF HEALTH

OF

MASSACHUSETTS

FOR THE

Week ending Saturday, June 27, 1903.

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VOL. XXI. No. 26.

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MORTALITY OF MASSACHUSETTS

For the Week ending June 27, 1903.

Deaths reported to the State Board of Health in 41 Cities and Greater Towns.

The number of deaths *reported* each week does not exactly correspond with the number which *occurred* during that week, but the discrepancy is a slight one in most cases. The mortality report is published weekly, and contains the returns from such cities and towns having a population of more than 10,000 inhabitants as have sent to the office of the State Board of Health the death returns of the previous week.

We shall esteem it a great favor if all reporting towns will send us their returns weekly, as heretofore, upon postal cards provided for the purpose. A supply of these cards will be sent to any town clerk or health officer who has charge of such returns and is willing to comply with this request.

CITIES AND TOWNS.	*Population. Estimated for 1903.	Reported Deaths in Each.	Deaths under Five Years.	Deaths from					
				Principal Infectious Diseases.	Acute Lung Diseases.	Phthisis.	Diphtheria and Croup.	Diarrhœal Diseases.	Scarlet Fever.
Boston,	603,163	129	40	24	12	12	1	5	..
Worcester,	132,044	36	9	6	3	2	..	2	..
Fall River,	115,549	48	19	27	..	9	..	16	1
Lowell,	101,959	34	7	10	1	7	..	2	..
Cambridge,	98,639	23	8	5	3	2	..	..	..
Lynn,	72,497	18	2	1	..	1	..	..	..
Lawrence,	69,766	25	13	3	..	2	..	..	1
Springfield,	69,389	20	2	3	2	..	..	..	2
Somerville,	68,110	11	1	3	2	2	1	..	..
New Bedford,	67,198	34	20	11	4	3	..	1	7
Holyoke,	49,286	18	14	8	1	1	..	5	..
Brockton,	44,873	9	1	3	..	2	..	..	..
Haverhill,	42,104	5	1	..	..	..	..	..	..
Newton,	37,794	6	..	..	..	..	..	..	..
Salem,	36,876	14	3	4	3	1	1	..	..
Malden,	36,286	5	1	2	..	2	..	..	..
Chelsea,	35,876	5	1	..	1	..	..	..	..
Fitchburg,	35,069	8	5	2	3	1	..	..	..
Taunton,	33,656	10	..	1	..	..	..	1	..
Everett,	28,620	5	..	1	..	1	..	..	..
North Adams,	27,862	..	..	..	..	..	..	..	..
Gloucester,	26,121	..	..	..	..	..	..	..	..
Quincy,	26,042	2	..	..	..	..	..	..	..
Waltham,	25,198	7	1	..	..	..	..	..	..
Brookline,	22,608	3	..	1	..	1	..	..	..
Pittsfield,	22,589	3	..	1	1	..	..	..	..
Chicopee,	21,031	11	7	5	1	..	..	3	1
Medford,	20,962	6	3	2	2	..	2	..	..
Northampton,	19,883	3	0	..	..	..	..	..	..
Beverly,	15,302	6	2	3	..	1	..	..	..
Clinton,	15,161	2	..	..	..	..	..	..	..
Leominster,	14,806	2	..	..	..	..	..	..	..
Newburyport,	14,478	3	2	1	..	..	..	..	..
Woburn,	14,300	6	2	..	..	..	..	..	..
Hyde Park,	14,175	..	..	..	..	..	..	..	..
Adams,	13,745	3	..	1	..	..	..	1	..
Attleborough,	13,677	..	..	..	..	..	..	..	..
Marlborough,	13,609	1	1	1	..	..	..	..	1
Melrose,	13,600	2	..	..	..	..	..	..	..
Westfield,	13,418	4	..	2	..	1	..	..	..
Milford,	13,129	..	..	..	..	..	..	..	..
Revere,	12,722	1	..	..	1	..	..	..	..
Framingham,	12,534	7	1	..	1	..	..	..	..
Peabody,	12,179	..	..	..	..	..	..	..	..
Gardner,	11,928	3	..	1	..	1	..	..	..
Weymouth,	11,344	2	0	1	..	1	..	..	..
Southbridge,	11,268	..	..	..	..	..	..	..	..
Watertown,	11,077	3	..	2	..	1	..	..	..
Plymouth,	10,730	..	..	..	..	..	..	..	..

RECAPITULATION.

	Population.	Deaths.	Deaths under Five.	Infectious Diseases.	Acute Lung Diseases.	Phthisis.	Diphtheria and Croup.	Diarrhœal Diseases.	Scarlet Fever.
Total of reporting towns,	2,125,091	543	166	135	41	54	5	36	13

Note.—*The populations of the Massachusetts cities were estimated upon the rate of growth from 1895 to 1900, since the State had an intermediate census in 1895. The populations of Gloucester, Marlborough and Newburyport were allowed to stand as in 1900, they having suffered a slight decrease during the five-year period.

Deaths from Prevalent Diseases in 41 Cities and Larger Towns of Massachusetts.

One hundred and thirty-five deaths were reported from the principal infectious diseases: measles, 4; scarlet fever, 13; cerebro-spinal meningitis, 6; diphtheria and croup, 5; whooping-cough, 5; typhoid fever, 9; diarrhœal diseases, 36; erysipelas, 3.

No deaths were reported from malarial fever, small-pox, influenza, or puerperal fever.

There were 54 deaths from consumption, acute lung diseases, 41, still-births, 30.

From measles: Boston, 2; Beverly, 2. From scarlet fever: Fall River, 1; Lawrence, 1; New Bedford, 7; Springfield, 2; Chicopee, 1; Marlborough, 1. From typhoid fever: Salem, 2; Boston, Worcester, Fall River, Springfield, Fitchburg, Chicopee and Watertown, 1 each. From cerebro-spinal meningitis: Cambridge, 2; Boston, Worcester, Pittsfield and Westfield, 1 each. From erysipelas: Boston, Lowell and Newburyport, 1 each.

Deaths under five years of age numbered 166, as compared with 170 for the preceding week.

Deaths from the principal infectious diseases numbered 135, as compared with 111 for the preceding week.

The death rates for the week were: Boston, 11.12; Worcester, 14.17; Fall River, 21.60; Lowell, 17.34; Cambridge, 12.12; Lynn, 12.91; Lawrence, 18.63; Springfield, 14.98; Somerville, 8.40; New Bedford, 26.31; Holyoke, 19.00; Brockton, 10.43; Haverhill, 6.17; Newton, 8.25; Salem, 19.74; Malden, 7.16; Chelsea, 7.25; Fitchburg, 11.86; Taunton, 15.45; Everett, 9.09; No. Adams, ——; Gloucester, ——; Quincy, 3.99; Waltham, 14.44; Brookline, 6.90; Pittsfield, 6.91; Chicopee, 27.20; Medford, 14.88; Northampton, 7.84; Beverly, 20.39; Clinton, 6.86; Leominster, 7.03; Newburyport, 10.77; Woburn, 21.81; Hyde Park, ——; Adams, 11.34; Attleborough, ——; Marlborough, 3.82; Melrose, 7.65; Westfield, 15.52; Milford, ——; Revere, 4.09; Framingham, 29.12; Peabody, ——; Gardner, 13.11; Weymouth, 9.17; Southbridge, ——; Watertown, ——; Plymouth, ——.

The total death rate for the week was 13.29, as compared with 12.95 and 13.84 for the previous two weeks.

Cases of Infectious Diseases reported to the State Board of Health during the Week ending June 27, 1903.

(Under the Provisions of section 52 of chapter 75, of the Revised Laws of Massachusetts.)

Scarlet fever,	157	Typhoid fever,	55
Diphtheria and croup,	78	Measles,	179
Small-pox,	8		

(SIGNED) **S. W. ABBOTT, M.D.,**
Secretary of the State Board of Health.

The Meteorological Record for the Week, in Boston, was as follows:

DATE.	BAROMETER.	THERMOMETER.			RELATIVE HUMIDITY.			DIRECTION OF WIND.		VELOCITY OF WIND.			STATE OF WEATHER.*			RAIN-FALL.	
Week ending Saturday, June 27, 1903.	MEAN.	MEAN.	MAXIMUM.	MINIMUM.	8 A.M.	8 P.M.	MEAN.	8 A.M.	8 P.M.	8 A.M.	8 P.M.		8 A.M.	8 P.M.		DURATION.	AMOUNT IN INCHES.
Sunday, 21,	29.74	54	56	51	100	97	98	N.E.	N.E.	18	18		R.	R.			2.36
Monday, 22,	29.99	53	56	50	100	81	90	N.E.	E.	16	8		R.	O.			0.21
Tuesday, 23,	30.01	51	53	49	90	88	89	E.	N.E.	16	18		O.	O.			0.01
Wednesday, 24,	30.06	52	54	49	90	96	93	N.E.	N.E.	13	12		O.	R.			0.13
Thursday, 25,	30.02	52	55	48	94	91	92	N.E.	N.	9	4		O.	O.			0.47
Friday, 26,	29.96	64	76	52	79	70	74	W.	S.W.	9	8		C.	C.			0.00
Saturday, 27,	29.84	70	81	59	74	52	63	W.	W.	8	6		C.	C.			0.00
Week,	29.95		62	51			86										3.18

* O. = Cloudy; C. = Clear; F. = Fair; G. = Fog; H. = Hazy; S. = Smoky; R. = Rain; T. = Threatening; N. = Snow.

Commonwealth of Massachusetts.

OFFICE OF STATE BOARD OF HEALTH,

STATE HOUSE.

Boston, July 2, 1903.

At the last meeting of the State Board of Health it was voted to issue the following notice: —

TO ALL CONCERNED.

In consequence of the polluted condition of the wells examined by the State Board of Health and used as drinking water supplies at the village of Siasconset, upon the eastern shore of Nantucket, the Board advises that such waters cannot safely be used for drinking without first being rendered harmless by boiling.

This notice is issued in consequence of a serious outbreak of typhoid fever which occurred at Siasconset during the last season.

By order of the State Board of Health,

SAMUEL W. ABBOTT,
Secretary.

Weekly Bulletin

OF THE

STATE BOARD OF HEALTH

OF

MASSACHUSETTS

FOR THE

Week ending Saturday, July 4, 1903.

An official publication of the State Board of Health of Massachusetts, published weekly at the office of the Board, State House, Boston, Mass.

VOL. XXI. No. 27.

Entered at the post-office at Boston as second-class matter.

This publication contains the returns of deaths made each week to the State Board of Health from cities and towns in Massachusetts having over 10,000 inhabitants in each.

It also contains the reports of cases of infectious diseases returned by the boards of health of cities and towns.

Once in each month the work done under the Food and Drug Acts is also reported in this bulletin.

STATE BOARD OF HEALTH.

HENRY P. WALCOTT, M.D., Cambridge, *Chairman.*
JULIAN A. MEAD, M.D., Watertown.
HIRAM F. MILLS, C.E., Lawrence.
GERARD C. TOBEY, Esq., Wareham.
JAMES W. HULL, Pittsfield.
CHARLES H. PORTER, Quincy.
JOHN W. BARTOL, M.D., Boston.

SAMUEL W. ABBOTT, M.D., *Secretary.*

MORTALITY OF MASSACHUSETTS

For the Week ending July 4, 1903.

Deaths reported to the State Board of Health in 36 Cities and Greater Towns.

The number of deaths *reported* each week does not exactly correspond with the number which *occurred* during that week, but the discrepancy is a slight one in most cases. The mortality report is published weekly, and contains the returns from such cities and towns having a population of more than 10,000 inhabitants as have sent to the office of the State Board of Health the death returns of the previous week.

We shall esteem it a great favor if all reporting towns will send us their returns weekly, as heretofore, upon postal cards provided for the purpose. A supply of these cards will be sent to any town clerk or health officer who has charge of such returns and is willing to comply with this request.

CITIES AND TOWNS.	* Population. Estimated for 1903.	Reported Deaths in Each.	Deaths under Five Years.	Deaths from Principal Infectious Diseases.	Deaths from Acute Lung Diseases.	Deaths from Phthisis.	Deaths from Diphtheria and Croup.	Deaths from Diarrhœal Diseases.	Deaths from Scarlet Fever.
Boston,	603,163	168	38	44	11	27	3	6	3
Worcester,	132,044	29	11	6	2	2	..	2	..
Fall River,	115,549	41	23	18	1	..	..	15	..
Lowell,	101,959	35	13	5	2	2	1	..	..
Cambridge,	98,639	16	4	3	1	1	..	1	..
Lynn,	72,497	19	6	1	..	..	1	..	..
Lawrence,	69,766	22	12	11	5	2	..	7	..
Springfield,	69,389	32	10	3	6	1	..	..	..
Somerville,	68,110	..	..	..	..	..	..	..	..
New Bedford,	67,198	35	15	12	3	4	1	1	4
Holyoke,	49,286	14	11	8	1	..	1	3	2
Brockton,	44,873	7	0	..	..	..	..	..	..
Haverhill,	42,104	10	4	2	1	2	..	..	..
Newton,	37,794	..	..	..	..	..	..	..	..
Salem,	36,876	10	2	..	..	..	..	..	..
Malden,	36,286	13	3	3	..	2	..	..	..
Chelsea,	35,876	14	6	1	..	..	1	..	..
Fitchburg,	35,069	4	1	..	1	..	..	..	..
Taunton,	33,656	11	2	3	3	1	..	2	..
Everett,	28,620	8	1	1	..	..	..	..	..
North Adams,	27,862	..	..	..	..	..	..	..	..
Gloucester,	26,121	..	..	..	..	..	..	..	..
Quincy,	26,042	4	1	..	..	..	..	..	..
Waltham,	25,198	5	2	1	1	..	1	..	..
Brookline,	22,608	..	..	..	..	..	..	..	..
Pittsfield,	22,589	9	..	..	1	..	..	..	..
Chicopee,	21,031	6	3	2	1	1	..	1	..
Medford,	20,962	5	..	..	1	..	..	..	..
Northampton,	19,883	6	3	1	..	..	1	..	..
Beverly,	15,302	4	1	3	..	2	..	..	..
Clinton,	15,161	..	..	..	..	..	..	..	..
Leominster,	14,806	..	..	..	..	..	..	..	..
Newburyport,	14,478	2	1	..	..	..	..	..	..
Woburn,	14,300	2	2	1	..	..	..	..	..
Hyde Park,	14,175	9	2	2	1	1	..	1	..
Adams,	13,745	1	..	..	..	..	..	..	..
Attleborough,	13,677	..	..	..	..	..	..	..	..
Marlborough,	13,609	3	0	1	..	..	1	..	..
Melrose,	13,600	..	..	..	..	..	..	..	..
Westfield,	13,418	1	..	..	..	..	..	..	..
Milford,	13,129	..	..	..	..	..	..	..	..
Revere,	12,722	1	..	..	..	..	..	..	..
Framingham,	12,534	..	..	..	..	..	..	..	..
Peabody,	12,179	..	..	..	..	..	..	..	..
Gardner,	11,928	1	..	1	..	1	..	..	..
Weymouth,	11,344	4	2	..	1	..	..	..	..
Southbridge,	11,268	6	1	1	1	1	..	..	..
Watertown,	11,077	1	1	..	..	..	..	..	..
Plymouth,	10,730	..	..	..	..	..	..	..	..

RECAPITULATION.

	Population.	Deaths.	Deaths under Five.	Infectious Diseases.	Acute Lung Diseases.	Phthisis.	Diphtheria and Croup.	Diarrhœal Diseases.	Scarlet Fever.
Total of reporting towns,	1,965,921	558	179	134	44	50	11	39	9

Note.—*The populations of the Massachusetts cities were estimated upon the rate of growth from 1895 to 1900, since the State had an intermediate census in 1895. The populations of Gloucester, Marlborough and Newburyport were allowed to stand as in 1900, they having suffered a slight decrease during the five-year period.

Deaths from Prevalent Diseases in 36 Cities and Larger Towns of Massachusetts.

One hundred and thirty-four deaths were reported from the principal infectious diseases: measles, 2; scarlet fever, 9; cerebro-spinal meningitis, 4; diphtheria and croup, 11; whooping-cough, 12; typhoid fever, 4; diarrhœal diseases, 39; erysipelas, 2; puerperal fever, 1.

No deaths were reported from malarial fever, small-pox or influenza.

There were 50 deaths from consumption, acute lung diseases, 44, still-births, 49.

From measles: Holyoke, 2. From scarlet fever: Boston, 3; New Bedford, 4; Holyoke, 2. From typhoid fever: Boston, 1; New Bedford, 2; Malden, 1. From cerebro-spinal meningitis: Boston, 1; Worcester, 1; Lawrence, 2. From erysipelas: Boston, 1; Everett, 1.

Deaths under five years of age numbered 181, as compared with 166 for the preceding week.

Deaths from the principal infectious diseases numbered 134, as compared with 135 for the preceding week.

The death rates for the week were: Boston, 14.48; Worcester, 11.42; Fall River, 18.45; Lowell, 17.34; Cambridge, 8.43; Lynn, 13.62; Lawrence, 16.39; Springfield, 23.97; Somerville, ——; New Bedford, 27.08; Holyoke, 14.77; Brockton, 8.11; Haverhill, 12.35; Newton, ——; Salem, 14.10; Malden, 18.63; Chelsea, 20.30; Fitchburg, ——; Taunton, 17.00; Everett, 14.54; No. Adams, ——; Gloucester, ——; Quincy, 7.98; Waltham, 10.31; Brookline, ——; Pittsfield, 20.72; Chicopee, 14.84; Medford, 12.40; Northampton, 15.68; Beverly, 13.60; Clinton, ——; Leominster, ——; Newburyport, 7.18; Woburn, 7.27; Hyde Park, 33.02; Adams, 3.78; Attleborough, ——; Marlborough, 11.47; Melrose, ——; Westfield, 3.88; Milford, ——; Revere, 4.09; Framingham, ——; Peabody, ——; Gardner, 4.37; Weymouth, 18.34; Southbridge, 27.66; Watertown, 4.68; Plymouth, ——.

The total death rate for the week was 14.76, as compared with 13.29 and 12.95 for the previous two weeks.

Cases of Infectious Diseases reported to the State Board of Health during the Week ending July 4, 1903.

(Under the Provisions of section 52 of chapter 75, of the Revised Laws of Massachusetts.)

Scarlet fever,	127	Typhoid fever,	42
Diphtheria and croup,	100	Measles,	128
Small-pox,	1		

(SIGNED) **S. W. ABBOTT, M.D.,**
Secretary of the State Board of Health.

The Meteorological Record for the Week, in Boston, was as follows:

DATE.	BAROM-ETER.	THER-MOMETER.			RELATIVE HUMIDITY.			DIRECTION OF WIND.		VELOCITY OF WIND.		STATE OF WEATHER.*		RAIN-FALL.	
Week ending Saturday, July 4, 1903.	MEAN.	MEAN.	MAXIMUM.	MINIMUM.	8 A.M.	8 P.M.	MEAN.	8 A.M.	8 P.M.	8 A.M.	8 P.M.	8 A.M.	8 P.M.	DURATION.	AMOUNT IN INCHES.
Sunday, June 28,	29.99	66	74	57	47	57	52	N. W.	S. W.	4	12	C.	C.		0.00
Monday, 29,	29.94	59	63	55	78	82	80	S. E.	N. E.	6	6	O.	R.		0.06
Tuesday, 30,	29.90	63	72	54	78	79	78	N.	S. W.	3	12	F.	O.		0.16
Wednesday, July 1,	29.80	75	84	66	90	90	90	W.	E.	12	5	R.	F.		0.18
Thursday, 2,	29.68	82	91	73	65	38	52	W.	W.	14	15	C.	C.		0.00
Friday, 3,	29.86	75	84	66	62	56	59	N. W.	N. W.	10	10	C.	F.		0.00
Saturday, 4,	30.05	66	72	61	46	61	54	N. E.	S. E.	7	9	C.	C.		0.00
Week,	29.89		77	62			66								0.40

* O. = Cloudy; C. = Clear; F. = Fair; G. = Fog; H. = Hazy; S. = Smoky; R. = Rain; T. = Threatening; N. = Snow.

Weekly Bulletin

OF THE

STATE BOARD OF HEALTH

OF

MASSACHUSETTS

FOR THE

Week ending Saturday, July 11, 1903.

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Once in each month the work done under the Food and Drug Acts is also reported in this bulletin.

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SAMUEL W. ABBOTT, M.D., *Secretary.*

MORTALITY OF MASSACHUSETTS

For the Week ending July 11, 1903.

Deaths reported to the State Board of Health in 40 Cities and Greater Towns.

The number of deaths *reported* each week does not exactly correspond with the number which *occurred* during that week, but the discrepancy is a slight one in most cases. The mortality report is published weekly, and contains the returns from such cities and towns having a population of more than 10,000 inhabitants as have sent to the office of the State Board of Health the death returns of the previous week.

We shall esteem it a great favor if all reporting towns will send us their returns weekly, as heretofore, upon postal cards provided for the purpose. A supply of these cards will be sent to any town clerk or health officer who has charge of such returns and is willing to comply with this request.

CITIES AND TOWNS.	*Population. Estimated for 1903.	Reported Deaths in Each.	Deaths under Five Years.	Deaths from: Principal Infectious Diseases.	Acute Lung Diseases.	Phthisis.	Diphtheria and Croup.	Diarrhœal Diseases.	Scarlet Fever.
Boston,	603,163	202	56	42	16	24	1	14	2
Worcester,	132,044	49	22	16	6	3	..	9	..
Fall River,	115,549	57	48	31	1	2	..	29	..
Lowell,	101,959	47	24	11	4	3	..	7	..
Cambridge,	98,639	28	10	8	2	4	2	..	..
Lynn,	72,497	16	1	2	..	2	..	..	..
Lawrence,	69,766	21	13	12	..	2	..	9	..
Springfield,	69,389	13	2	4	..	2	..	..	1
Somerville,	68,110	19	6	5	3	3	..	..	1
New Bedford,	67,198	35	17	13	4	..	1	9	2
Holyoke,	49,286	18	11	9	2	1	..	8	..
Brockton,	44,873	11	2	2	..	2	..	..	..
Haverhill,	42,104	10	1	1	1	1	..	..	..
Newton,	37,794	..	..	..	..	..	..	..	..
Salem,	36,876	12	4	3	..	1	1	1	..
Malden,	36,286	..	..	..	..	..	..	..	..
Chelsea,	35,876	15	6	2	..	2	..	..	..
Fitchburg,	35,069	..	..	..	..	..	..	..	..
Taunton,	33,656	11	1	2	2	2	..	..	..
Everett,	28,620	6	1	..	..	..	..	..	..
North Adams,	27,862	4	1	1	1	..	..	..	1
Gloucester,	26,121	9	3	..	..	..	..	..	..
Quincy,	26,042	8	1	2	..	1	..	..	..
Waltham,	25,198	5	..	..	..	..	..	..	..
Brookline,	22,608	4	1	1	1	..	..	1	..
Pittsfield,	22,589	10	1	1	2	..	..	..	..
Chicopee,	21,031	13	9	8	1	1	..	7	..
Medford,	20,962	4	1	1	..	..	..	..	..
Northampton,	19,883	6	3	..	..	..	..	..	..
Beverly,	15,302	2	1	..	1	..	..	..	..
Clinton,	15,161	..	..	..	..	..	..	..	..
Leominster,	14,806	..	..	..	..	..	..	..	..
Newburyport,	14,478	4	1	..	..	..	..	..	..
Woburn,	14,300	2	..	1	..	1	..	..	..
Hyde Park,	14,175	..	..	..	..	..	..	..	..
Adams,	13,745	2	2	..	..	..	..	..	..
Attleborough,	13,677	..	..	..	..	..	..	..	..
Marlborough,	13,609	5	0	3	..	1	..	..	..
Melrose,	13,600	3	..	..	1	..	..	..	..
Westfield,	13,418	3	3	..	..	..	..	..	..
Milford,	13,129	..	..	..	..	..	..	..	..
Revere,	12,722	4	1	1	1	1	..	..	..
Framingham,	12,534	1	..	..	..	..	..	..	..
Peabody,	12,179	..	..	..	..	..	..	..	..
Gardner,	11,928	3	1	..	2	..	..	..	..
Weymouth,	11,344	3	0	1	..	1	..	..	..
Southbridge,	11,268	4	..	2	..	..	..	1	..
Watertown,	11,077	2	..	1	..	1	..	..	..
Plymouth,	10,730	4	..	1	..	..	..	..	..

RECAPITULATION.

	Population.	Deaths.	Deaths under Five.	Infectious Diseases.	Acute Lung Diseases.	Phthisis.	Diphtheria and Croup.	Diarrhœal Diseases.	Scarlet Fever.
Total of reporting towns,	2,061,956	675	254	187	51	61	5	95	7

Note.—*The populations of the Massachusetts cities were estimated upon the rate of growth from 1895 to 1900, since the State had an intermediate census in 1895. The populations of Gloucester, Marlborough and Newburyport were allowed to stand as in 1900, they having suffered a slight decrease during the five-year period.

Deaths from Prevalent Diseases in 40 Cities and Larger Towns of Massachusetts.

One hundred and eighty-seven deaths were reported from the principal infectious diseases: measles, 1; scarlet fever, 7; cerebro-spinal meningitis, 7; diphtheria and croup, 5; whooping-cough, 6; typhoid fever, 5; diarrhœal diseases, 80; puerperal fever, 1.

No deaths were reported from malarial fever, small-pox, influenza or erysipelas.

There were 61 deaths from consumption, acute lung diseases, 51, still-births, 44.

From measles: Plymouth, 1. From scarlet fever: Boston, 2; New Bedford, 2; Springfield, Somerville and North Adams, 1 each. From typhoid fever: Cambridge, Lawrence, Pittsfield and Medford, 1 each. From whooping-cough: Boston, Lowell, Cambridge, Springfield, Somerville and Quincy, 1 each.

Deaths under five years of age numbered 254, as compared with 181 for the preceding week.

Deaths from the principal infectious diseases numbered 187, as compared with 134 for the preceding week.

The death rates for the week were: Boston, 17.41; Worcester, 19.30; Fall River, 25.65; Lowell, 23.97; Cambridge, 14.76; Lynn, 11.47; Lawrence, 15.65; Springfield, 9.74; Somerville, 14.50; New Bedford, 27.08; Holyoke, 18.99; Brockton, 12.75; Haverhill, 12.35; Newton, ——; Salem, 16.92; Malden, ——; Chelsea, 21.75; Fitchburg, ——; Taunton, 17.00; Everett, 10.91; No. Adams, 7.46; Gloucester, 17.93; Quincy, 15.98; Waltham, 10.31; Brookline, 9.20; Pittsfield, 23.02; Chicopee, 32.15; Medford, 9.12; Northampton, 15.68; Beverly, 6.80; Clinton, ——; Leominster, ——; Newburyport, 14.36; Woburn, 7.27; Hyde Park, ——; Adams, 7.57; Attleborough, ——; Marlborough, 19.11; Melrose, 11.47; Westfield, 11.64; Milford, ——; Revere, 16.38; Framingham, 4.16; Peabody, ——; Gardner, 13.11; Weymouth, 13.75; Southbridge, 18.45; Watertown, 9.37; Plymouth, 19.38.

The total death rate for the week was 17.02, as compared with 14.76 and 13.29 for the previous two weeks.

Cases of Infectious Diseases reported to the State Board of Health during the Week ending July 11, 1903.

(Under the Provisions of section 52 of chapter 75, of the Revised Laws of Massachusetts.)

Scarlet fever, ...	72	Typhoid fever, ...	36
Diphtheria and croup, ...	85	Measles, ...	88
Small-pox, ...	19		

(SIGNED) S. W. ABBOTT, M.D.,
Secretary of the State Board of Health.

The Meteorological Record for the Week, in Boston, was as follows:

DATE.	BAROM-ETER.	THER-MOMETER.			RELATIVE HUMIDITY.			DIRECTION OF WIND.		VELOCITY OF WIND.			STATE OF WEATHER.*			RAIN-FALL.	
Week ending Saturday, July 11, 1903.	MEAN.	MEAN.	MAXIMUM.	MINIMUM.	8 A.M.	8 P.M.	MEAN.	8 A.M.	8 P.M.	8 A.M.	8 P.M.		8 A.M.	8 P.M.		DURATION.	AMOUNT IN INCHES.
Sunday, . . 5,	30.14	68	79	58	60	61	60	W.	S. W.	10	12		C.	O.			0.00
Monday, . . 6,	30.02	70	77	63	82	87	84	S. W.	S. W.	12	9		O.	C.			0.31
Tuesday, . . 7,	30.04	75	86	64	66	51	58	N. W.	W.	5	5		C.	C.			0.00
Wednesday, . 8,	29.90	80	90	70	60	58	59	W.	W.	9	9		F.	C.			0.00
Thursday, . . 9,	29.86	82	93	70	57	76	66	W.	E.	8	6		O.	C.			0.00
Friday, . . 10,	29.82	80	93	68	72	60	66	W.	W.	4	12		O.	C.			0.00
Saturday, . . 11,	29.72	82	90	74	58	62	60	N. W.	W.	12	7		C.	C.			0.00
Week, . . .	29.93		87	67			65										0.31

* O. = Cloudy; C. = Clear; F. = Fair; G. = Fog; H. = Hazy; S. = Smoky; R. = Rain; T. = Threatening; N. = Snow.

INSPECTION OF FOOD AND DRUGS.

The following summary presents the results of the examinations of Food and Drugs by the State Board of Health in the month of June, 1903: —

ARTICLES EXAMINED.	Number found to be of good quality.	Number adulterated or varying from the legal standard.	TOTAL.	ARTICLES EXAMINED.	Number found to be of good quality.	Number adulterated or varying from the legal standard.	TOTAL.
Milk, . . .	428	73	501	Maple Syrup, . .	2	..	2
Butter, . . .	7	1	8	Canned Goods, .	..	..	..
Cheese, . . .	3	1	4	Honey, . . .	..	1	1
Lard, . . .	2	..	2	Tea, . . .	1	..	1
Olive Oil, . . .	..	..	..	Coffee, . . .	4	..	4
Vinegar, . . .	1	10	11	Cocoa and Chocolate,	1	3	4
Spices, . . .	145	10	155	Confectionery, .	..	..	..
Cream of Tartar, .	25	..	25	Condensed Milk, .	23	2	25
Molasses, . . .	24	1	25	Miscellaneous, .	3	2	5
Syrups, . . .	..	..	..	Drugs, . . .	50	41	91
Maple Sugar, . .	..	..	..				
				Totals, . .	719	115	864

Percentage of adulteration, 16.8. The actual ratio of adulteration is very much less than this, since it is only suspicious articles of food to which the attention of the Board is directed. Certain staple products, such as sugar, flour, and the various other cereal products, are very rarely adulterated and require but little inspection. The work of the Board is therefore mainly devoted to the inspection of such articles as it has found, by several years of experience, to be especially liable to adulteration.

The ratio of samples of milk found to be below the standard was 14.6 per cent., while the percentage of articles of food was 11.4 per cent.

One complaint was entered in the courts during the month for violation of the laws relative to the inspection of Food and Drugs.

The samples of drugs found to be adulterated were Capsicum, Cera Alba, Cera Flava, Oleum Olivæ, Phenacetine, Sodii Boras, Spiritus Aetheris Nitrosi, Sulphur Præcipitatum and Tinctura Iodi.

Cities and towns from which samples of food were collected were Boston, Dedham, Chelsea, Needham, Worcester, Waltham, Charleton, Clinton, Revere, New Bedford, Lowell, Somerville, Cambridge, Haverhill, Fall River, Newburyport, Amesbury, Fitchburg, Malden, North Adams, Greenfield, Springfield, Holyoke, Plymouth, Newton, Weymouth, Watertown and Braintree.

Weekly Bulletin

OF THE

STATE BOARD OF HEALTH

OF

MASSACHUSETTS

FOR THE

Week ending Saturday, July 18, 1903.

An official publication of the State Board of Health of Massachusetts, published weekly at the office of the Board, State House, Boston, Mass.

VOL. XXI. No. 29.

Entered at the post-office at Boston as second-class matter.

This publication contains the returns of deaths made each week to the State Board of Health from cities and towns in Massachusetts having over 10,000 inhabitants in each.

It also contains the reports of cases of infectious diseases returned by the boards of health of cities and towns.

Once in each month the work done under the Food and Drug Acts is also reported in this bulletin.

STATE BOARD OF HEALTH.

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SAMUEL W. ABBOTT, M.D., *Secretary.*

MORTALITY OF MASSACHUSETTS

For the Week ending July 18, 1903.

Deaths reported to the State Board of Health in 37 Cities and Greater Towns.

The number of deaths *reported* each week does not exactly correspond with the number which *occurred* during that week, but the discrepancy is a slight one in most cases. The mortality report is published weekly, and contains the returns from such cities and towns having a population of more than 10,000 inhabitants as have sent to the office of the State Board of Health the death returns of the previous week.

We shall esteem it a great favor if all reporting towns will send us their returns weekly, as heretofore, upon postal cards provided for the purpose. A supply of these cards will be sent to any town clerk or health officer who has charge of such returns and is willing to comply with this request.

CITIES AND TOWNS.	* Population. Estimated for 1903.	Reported Deaths in Each.	Deaths under Five Years.	Deaths from					
				Principal Infectious Diseases.	Acute Lung Diseases.	Phthisis.	Diphtheria and Croup.	Diarrhœal Diseases.	Scarlet Fever.
Boston,	603,163	215	67	55	28	18	5	27	3
Worcester,	132,044	43	25	11	5	1	..	9	..
Fall River,	115,549	104	80	65	3	4	1	59	1
Lowell,	101,959	52	27	20	..	3	..	15	1
Cambridge,	98,639	29	8	12	1	3	1	6	1
Lynn,	72,497	19	4	1	..	1	..	..	..
Lawrence,	69,766	32	22	17	..	2	..	14	1
Springfield,	69,389	..	..	..	..	..	..	..	..
Somerville,	68,110	13	1	4	1	4	..	..	..
New Bedford,	67,198	39	26	10	3	1	..	7	2
Holyoke,	49,286	22	15	11	2	1	..	9	1
Brockton,	44,873	10	4	1	..	..	..	..	..
Haverhill,	42,104	15	5	4	2	4	..	..	..
Newton,	37,794	6	1	..	1	..	..	..	..
Salem,	36,876	10	4	2	..	2	..	..	..
Malden,	36,286	6	3	1	..	1	..	..	..
Chelsea,	35,876	11	1	..	..	..	..	..	..
Fitchburg,	35,069	9	5	2	..	1	1	..	..
Taunton,	33,656	9	4	2	..	..	2	..	..
Everett,	28,620	9	3	1	..	..	..	1	..
North Adams,	27,862	3	1	1	..	..	..	..	..
Gloucester,	26,121	7	1	3	..	1	2	..	..
Quincy,	26,042	5	1	..	1	..	..	..	..
Waltham,	25,198	6	1	..	1	..	..	..	..
Brookline,	22,608	..	..	..	..	..	..	..	..
Pittsfield,	22,589	3	..	2	..	2	..	..	..
Chicopee,	21,031	9	4	1	..	..	..	1	..
Medford,	20,962	4	..	..	1	..	..	..	..
Northampton,	19,883	5	1	..	..	..	..	..	..
Beverly,	15,302	..	..	..	..	..	..	..	..
Clinton,	15,161	4	0	..	..	..	..	..	..
Leominster,	14,806	..	..	..	..	..	..	..	..
Newburyport,	14,478	6	0	..	1	..	..	..	..
Woburn,	14,300	6	..	3	1	1	..	1	..
Hyde Park,	14,175	..	..	..	..	..	..	..	..
Adams,	13,745	3	2	..	1	..	..	..	..
Attleborough,	13,677	..	..	..	..	..	..	..	..
Marlborough,	13,609	4	0	..	..	..	..	..	..
Melrose,	13,600	4	1	..	1	..	..	..	..
Westfield,	13,418	9	3	2	..	..	..	1	1
Milford,	13,129	..	..	..	..	..	..	..	..
Revere,	12,722	1	1	1	..	..	..	..	..
Framingham,	12,534	..	..	..	..	..	..	..	..
Peabody,	12,179	..	..	..	..	..	..	..	..
Gardner,	11,928	..	..	..	..	..	..	..	..
Weymouth,	11,344	3	0	..	..	..	..	..	..
Southbridge,	11,268	..	..	..	..	..	..	..	..
Watertown,	11,077	2	..	..	..	..	..	..	..
Plymouth,	10,730	..	..	..	..	..	..	..	..

RECAPITULATION.

	Population.	Deaths.	Deaths under Five.	Infectious Diseases.	Acute Lung Diseases.	Phthisis.	Diphtheria and Croup.	Diarrhœal Diseases.	Scarlet Fever.
Total of reporting towns,	2,032,507	737	321	232	53	50	12	150	11

Note.—* The populations of the Massachusetts cities were estimated upon the rate of growth from 1895 to 1900, since the State had an intermediate census in 1895. The populations of Gloucester, Marlborough and Newburyport were allowed to stand as in 1900, they having suffered a slight decrease during the five-year period.

Deaths from Prevalent Diseases in 37 Cities and Larger Towns of Massachusetts.

Two hundred and thirty-two deaths were reported from the principal infectious diseases: scarlet fever, 11; cerebro-spinal meningitis, 2; diphtheria and croup, 12; whooping-cough, 2; typhoid fever, 2; diarrhœal diseases, 150; erysipelas, 2.

No deaths were reported from malarial fever, small-pox, influenza, measles or puerperal fever.

There were 50 deaths from consumption, acute lung diseases, 53, still-births, 45.

From scarlet fever: Boston, 3; New Bedford, 2, and Fall River, Lowell, Cambridge, Lawrence, Holyoke and Westfield, 1 each. From typhoid fever: Cambridge and North Adams, 1 each. From whooping-cough: Boston and Lowell, 1 each. From cerebro-spinal meningitis: Brockton and Revere, 1 each.

Deaths under five years of age numbered 321, as compared with 254 for the preceding week.

Deaths from the principal infectious diseases numbered 232, as compared with 187 for the preceding week.

The death rates for the week were: Boston, 18.53; Worcester, 16.93; Fall River, 46.80; Lowell, 26.52; Cambridge, 15.29; Lynn, 13.63; Lawrence, 23.85; Springfield, ——; Somerville, 9.92; New Bedford, 30.18; Holyoke, 23.21; Brockton, 11.59; Haverhill, 18.52; Newton, 8.25; Salem, 14.10; Malden, 8.60; Chelsea, 15.95; Fitchburg, 13.34; Taunton, 13.90; Everett, 16.36; No. Adams, 5.60; Gloucester, 13.94; Quincy, 9.98; Waltham, 12.38; Brookline, ——; Pittsfield, 6.90; Chicopee, 22.56; Medford, 9.92; Northampton, 13.16; Beverly, ——; Clinton, 13.72; Leominster, ——; Newburyport, 23.54; Woburn, 21.82; Hyde Park, ——; Adams, 11.35; Attleborough, ——; Marlborough, 15.29; Melrose, 15.29; Westfield, 34.92; Milford, ——; Revere, 8.19; Framingham, ——; Peabody, ——; Gardner, ——; Weymouth, 13.75; Southbridge, ——; Watertown, 9.37; Plymouth, ——.

The total death rate for the week was 18.85, as compared with 17.02 and 14.76 for the previous two weeks.

Cases of Infectious Diseases reported to the State Board of Health during the Week ending July 18, 1903.

(Under the Provisions of section 52 of chapter 75, of the Revised Laws of Massachusetts.)

Scarlet fever,	67	Typhoid fever,	39
Diphtheria and croup,	87	Measles,	74
Small-pox,	7		

(SIGNED) **S. W. ABBOTT, M.D.,**
Secretary of the State Board of Health.

The Meteorological Record for the Week, in Boston, was as follows:

DATE.	BAROM-ETER.	THER-MOMETER.			RELATIVE HUMIDITY.			DIRECTION OF WIND.		VELOCITY OF WIND.		STATE OF WEATHER.*			RAIN-FALL.	
Week ending Saturday, July 18, 1903.	MEAN.	MEAN.	MAXIMUM.	MINIMUM. *	8 A.M.	8 P.M.	MEAN.	8 A.M.	8 P.M.	8 A.M.	8 P.M.	8 A.M.	8 P.M.		DURATION.	AMOUNT IN INCHES.
Sunday, 12,	29.72	78	88	68	51	68	60	N. W.	S. W.	8	12	C.	R.			T
Monday, 13,	29.71	70	75	66	79	68	74	N.	W.	8	10	O.	F.			0.02
Tuesday, 14,	29.80	72	80	63	52	73	62	W.	W.	15	7	O.	F.			0.04
Wednesday, 15,	29.78	67	75	59	66	53	60	W.	W.	6	10	C.	C.			0.00
Thursday, 16,	29.87	64	74	55	66	66	66	W.	W.	15	9	C.	C.			0.01
Friday, 17,	30.00	70	81	59	60	44	52	W.	S. W.	9	9	C.	C.			0.00
Saturday, 18,	29.93	70	79	61	58	76	67	S.	S.	6	14	F.	R.			T
Week,	29.83		79	62			63									0.07

* O. = Cloudy; C. = Clear; F. = Fair; G. = Fog; H. = Hazy; S. = Smoky; R. = Rain; T. = Threatening; N. = Snow.

Weekly Bulletin

OF THE

STATE BOARD OF HEALTH

OF

MASSACHUSETTS

FOR THE

Week ending Saturday, July 25, 1903.

An official publication of the State Board of Health of Massachusetts, published weekly at the office of the Board, State House, Boston, Mass.

VOL. XXI. No. 30.

Entered at the post-office at Boston as second-class matter.

This publication contains the returns of deaths made each week to the State Board of Health from cities and towns in Massachusetts having over 10,000 inhabitants in each.

It also contains the reports of cases of infectious diseases returned by the boards of health of cities and towns.

Once in each month the work done under the Food and Drug Acts is also reported in this bulletin.

STATE BOARD OF HEALTH.

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SAMUEL W. ABBOTT, M.D., *Secretary.*

MORTALITY OF MASSACHUSETTS

For the Week ending July 25, 1903.

Deaths reported to the State Board of Health in 36 Cities and Greater Towns.

The number of deaths *reported* each week does not exactly correspond with the number which *occurred* during that week, but the discrepancy is a slight one in most cases. The mortality report is published weekly, and contains the returns from such cities and towns having a population of more than 10,000 inhabitants as have sent to the office of the State Board of Health the death returns of the previous week.

We shall esteem it a great favor if all reporting towns will send us their returns weekly, as heretofore, upon postal cards provided for the purpose. A supply of these cards will be sent to any town clerk or health officer who has charge of such returns and is willing to comply with this request.

CITIES AND TOWNS.	*Population. Estimated for 1903.	Reported Deaths in Each.	Deaths under Five Years.	Deaths from: Principal Infectious Diseases.	Acute Lung Diseases.	Phthisis.	Diphtheria and Croup.	Diarrhœal Diseases.	Scarlet Fever.
Boston,	603,163	188	58	70	10	28	4	33	..
Worcester,	132,044	35	16	9	2	2	..	4	..
Fall River,	115,549	59	34	36	1	9	..	26	1
Lowell,	101,959	36	20	17	1	2	..	14	..
Cambridge,	98,639	23	11	8	2	2	2	4	..
Lynn,	72,497	18	7	3	..	2	1	..	..
Lawrence,	69,766	32	13	15	4	3	..	11	..
Springfield,	69,389	21	7	5	1	1	1	2	1
Somerville,	68,110	10	1	3	1	3	..	..	..
New Bedford,	67,198	32	17	16	1	2	..	13	1
Holyoke,	49,286	..	..	..	..	..	..	..	..
Brockton,	44,873	11	4	3	..	1	..	..	..
Haverhill,	42,104	9	1	2	..	..	1	1	..
Newton,	37,794	6	2	1	1	1	..	..	..
Salem,	36,876	15	6	7	1	..	1	4	..
Malden,	36,286	13	3	..	2	..	..	..	..
Chelsea,	35,876	10	8	..	2	..	..	..	..
Fitchburg,	35,069	..	..	..	..	..	..	..	..
Taunton,	33,656	17	10	4	2	..	1	3	..
Everett,	28,620	4	3	1	..	..	..	1	..
North Adams,	27,862	12	4	2	..	2	..	..	..
Gloucester,	26,121	..	..	..	..	..	..	..	..
Quincy,	26,042	3	..	1	..	..	..	1	..
Waltham,	25,198	5	..	..	..	..	..	..	..
Brookline,	22,608	..	..	..	..	..	..	..	..
Pittsfield,	22,589	4	..	..	1	..	..	..	..
Chicopee,	21,031	8	5	5	..	..	1	2	2
Medford,	20,962	2	2	1	..	..	..	1	..
Northampton,	19,883	5	1	..	..	..	..	..	..
Beverly,	15,302	2	..	..	..	..	..	..	..
Clinton,	15,161	4	1	..	..	..	..	..	..
Leominster,	14,806	..	..	..	..	..	..	..	..
Newburyport,	14,478	7	0	3	1	3	..	..	..
Woburn,	14,300	..	..	..	..	..	..	..	..
Hyde Park,	14,175	..	..	..	..	..	..	..	..
Adams,	13,745	1	..	..	..	..	..	..	..
Attleborough,	13,677	..	..	..	..	..	..	..	..
Marlborough,	13,609	2	1	..	..	..	..	..	..
Melrose,	13,600	..	..	..	..	..	..	..	..
Westfield,	13,418	9	5	..	..	..	..	..	..
Milford,	13,129	..	..	..	..	..	..	..	..
Revere,	12,722	5	1	1	1	..	..	..	..
Framingham	12,534	2	..	1	..	..	1	..	..
Peabody,	12,179	..	..	..	..	..	..	..	..
Gardner,	11,928	6	..	3	..	..	..	2	..
Weymouth,	11,344	4	0	..	..	..	..	..	..
Southbridge,	11,268	..	..	..	..	..	..	..	..
Watertown,	11,077	2	1	..	..	..	..	..	..
Plymouth,	10,730	..	..	..	..	..	..	..	..

RECAPITULATION.

	Population.	Deaths.	Deaths under Five.	Infectious Diseases.	Acute Lung Diseases.	Phthisis.	Diphtheria and Croup.	Diarrhœal Diseases.	Scarlet Fever.
Total of reporting towns,	1,998,284	622	242	217	34	61	13	122	5

Note.—*The populations of the Massachusetts cities were estimated upon the rate of growth from 1895 to 1900, since the State had an intermediate census in 1905. The populations of Gloucester, Marlborough and Newburyport were allowed to stand as in 1900, they having suffered a slight decrease during the five-year period.

Deaths from Prevalent Diseases in 36 Cities and Larger Towns of Massachusetts.

Two hundred and seventeen deaths were reported from the principal infectious diseases: measles, 2; scarlet fever 5; cerebro-spinal meningitis, 5; diphtheria and croup, 13; whooping-cough, 4; typhoid fever, 5; diarrhœal diseases, 122.

No deaths were reported from malarial fever, small-pox, influenza, puerperal fever or erysipelas.

There were 61 deaths from consumption, acute lung diseases, 34, still-births, 28.

From measles: Boston, 2. From scarlet fever: Fall River, New Bedford and Springfield, 1 each; Chicopee, 2. From typhoid fever: Boston, Gardner and Revere, 1 each; Salem, 2. From whooping-cough: Boston, 2; Lowell and Lawrence, 1 each. From cerebro-spinal meningitis: Boston, 3; Brockton, 2. From diphtheria and croup: Boston, 4; Cambridge, 2; and Lynn, Springfield, Haverhill, Salem, Taunton, Chicopee and Framingham, 1 each.

Deaths under five years of age numbered 242, as compared with 321 for the preceding week.

Deaths from the principal infectious diseases numbered 217, as compared with 232 for the preceding week.

The death rates for the week were: Boston, 16.20; Worcester, 13.78; Fall River, 26.55; Lowell, 18.36; Cambridge, 12.12; Lynn, 12.91; Lawrence, 23.85; Springfield, 15.73; Somerville, 7.63; New Bedford, 24.76; Holyoke, ——; Brockton, 12.75; Haverhill, 11.11; Newton, 8.25; Salem, 21.15; Malden, 18.62; Chelsea, 14.50; Fitchburg, ——; Taunton, 26.26; Everett, 7.27; No. Adams, 22.39; Gloucester, ——; Quincy, 6.00; Waltham, 10.31; Brookline, ——; Pittsfield, 9.21; Chicopee, 19.78; Medford, 4.96; Northampton, 13.16; Beverly, 6.68; Clinton, 13.72; Leominster, ——; Newburyport, 25.14; Woburn, ——; Hyde Park, ——; Adams, 3.78; Attleborough, ——; Marlborough, 7.65; Melrose, ——; Westfield, 34.92; Milford, ——; Revere, 20.47; Framingham, 8.32; Peabody, ——; Gardner, 26.21; Weymouth, 18.34; Southbridge, ——; Watertown, 9.37; Plymouth, ——.

The total death rate for the week was 16.18, as compared with 18.85 and 17.02 for the previous two weeks.

Cases of Infectious Diseases reported to the State Board of Health during the Week ending July 25, 1903.

(Under the Provisions of section 52 of chapter 75, of the Revised Laws of Massachusetts.)

Scarlet fever, ...	80	Typhoid fever, ...	44
Diphtheria and croup, ...	86	Measles, ...	59
Small-pox, ...	8		

(SIGNED) S. W. ABBOTT, M.D.,
Secretary of the State Board of Health.

The Meteorological Record for the Week, in Boston, was as follows:

DATE.	BAROM-ETER.	THER-MOMETER.			RELATIVE HUMIDITY.			DIRECTION OF WIND.		VELOCITY OF WIND.			STATE OF WEATHER.*			RAIN-FALL.	
Week ending Saturday, July 25, 1903.	MEAN.	MEAN.	MAXIMUM.	MINIMUM.	8 A.M.	8 P.M.	MEAN.	8 A.M.	8 P.M.	8 A.M.	8 P.M.		8 A.M.	8 P.M.		DURATION.	AMOUNT IN INCHES.
Sunday, . . 19,	29.66	60	61	59	100	100	100	N. E.	N.	24	10		R.	R.			1.00
Monday, . . 20,	29.90	66	74	58	68	76	72	N. W.	S.	2	9		O.	O.			T
Tuesday, . . 21,	29.97	62	64	59	97	97	97	S. E.	N. E.	10	3		R.	R.			0.24
Wednesday, . 22,	30.06	62	65	58	97	97	97	E.	N. E.	7	8		O.	O.			0.15
Thursday, . . 23,	29.88	68	73	62	90	88	89	N. W.	S. E.	8	2		O.	O.			0.26
Friday, . . 24,	29.95	73	82	64	75	44	60	N. W.	N. W.	12	9		C.	C.			0.00
Saturday, . . 25,	29.96	74	87	61	55	60	58	W.	S. W.	10	17		C.	F.			0.00
Week, . . .	29.91		72	60			82										1.65

* O. = Cloudy; C. = Clear; F. = Fair; G. = Fog; H. = Hazy; S. = Smoky; R. = Rain; T. = Threatening; N. = Snow.

Weekly Bulletin

OF THE

STATE BOARD OF HEALTH

OF

MASSACHUSETTS

FOR THE

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MORTALITY OF MASSACHUSETTS

For the Week ending Aug. 1, 1903.

Deaths reported to the State Board of Health in 40 Cities and Greater Towns.

The number of deaths *reported* each week does not exactly correspond with the number which *occurred* during that week, but the discrepancy is a slight one in most cases. The mortality report is published weekly, and contains the returns from such cities and towns having a population of more than 10,000 inhabitants as have sent to the office of the State Board of Health the death returns of the previous week.

We shall esteem it a great favor if all reporting towns will send us their returns weekly, as heretofore, upon postal cards provided for the purpose. A supply of these cards will be sent to any town clerk or health officer who has charge of such returns and is willing to comply with this request.

CITIES AND TOWNS.	*Population. Estimated for 1903.	Reported Deaths in Each.	Deaths under Five Years.	Deaths from Principal Infectious Diseases.	Acute Lung Diseases.	Phthisis.	Diphtheria and Croup.	Diarrhœal Diseases.	Scarlet Fever.
Boston,	603,163	205	78	78	17	25	5	37	2
Worcester,	132,044	47	30	16	4	..	..	12	..
Fall River,	115,549	47	29	23	3	..	1	20	1
Lowell,	101,959	64	48	34	1	..	1	29	..
Cambridge,	98,639	35	15	16	1	5	..	11	..
Lynn,	72,497	18	7	1	..	..	..	..	..
Lawrence,	69,766	33	20	17	..	..	1	15	..
Springfield,	69,389	19	5	5	1	3	..	2	..
Somerville,	68,110	20	8	1	..	..	1	..	..
New Bedford,	67,198	48	28	27	3	3	1	18	4
Holyoke,	49,286	..	..	..	..	..	..	..	..
Brockton,	44,873	10	3	2	..	1	..	..	..
Haverhill,	42,104	11	2	3	..	2	..	..	..
Newton,	37,794	7	2	1	2	..	..	1	..
Salem,	36,876	14	3	..	..	..	..	..	..
Malden,	36,286	16	4	1	..	..	..	1	..
Chelsea,	35,876	10	4	1	..	1	..	..	..
Fitchburg,	35,069	9	5	1	..	..	..	..	..
Taunton,	33,656	14	6	5	..	1	..	4	..
Everett,	28,620	8	4	5	..	1	..	4	..
North Adams,	27,862	14	9	9	..	..	..	8	1
Gloucester,	26,121	5	1	..	..	..	..	..	..
Quincy,	26,042	9	3	3	..	2	..	1	..
Waltham,	25,198	6	2	1	1	1	..	..	..
Brookline,	22,608	5	2	..	..	..	..	..	..
Pittsfield,	22,589	6	3	1	..	..	..	1	..
Chicopee,	21,031	11	10	8	1	1	..	6	1
Medford,	20,962	7	3	1	2	1	..	..	..
Northampton,	19,883	8	2	1	..	1	..	..	..
Beverly,	15,302	6	1	4	..	3	1	..	..
Clinton,	15,161	3	0	1	..	1	..	..	..
Leominster,	14,806	..	..	..	..	..	..	..	..
Newburyport,	14,478	2	1	1	..	..	1	..	..
Woburn,	14,300	..	..	..	..	..	..	..	..
Hyde Park,	14,175	6	4	2	..	1	..	1	..
Adams,	13,745	5	..	2	..	1	1	..	..
Attleborough,	13,677	..	..	..	..	..	..	..	..
Marlborough,	13,609	6	3	3	1	..	..	2	..
Melrose,	13,600	3	..	..	..	..	..	..	..
Westfield,	13,418	6	3	1	1	1	..	..	..
Milford,	13,129	..	..	..	..	..	..	..	..
Revere,	12,722	6	4	2	..	..	..	1	..
Framingham,	12,534	..	..	..	..	..	..	..	..
Peabody,	12,179	..	..	..	..	..	..	..	..
Gardner,	11,928	..	..	..	..	..	..	..	..
Weymouth,	11,344	4	0	1	1	..	..	..	..
Southbridge,	11,268	4	1	2	1	1	..	1	..
Watertown,	11,077	3	2	..	..	..	..	..	..
Plymouth,	10,730	..	..	..	..	..	..	..	..

RECAPITULATION.

	Population.	Deaths.	Deaths under Five.	Infectious Diseases.	Acute Lung Diseases.	Phthisis.	Diphtheria and Croup.	Diarrhœal Diseases.	Scarlet Fever.
Total of reporting towns,	2,101,663	580	355	280	40	56	13	175	9

Note.—*The populations of the Massachusetts cities were estimated upon the rate of growth from 1895 to 1900, since the State had an intermediate census in 1895. The populations of Gloucester, Marlborough and Newburyport were allowed to stand as in 1900, they having suffered a slight decrease during the five-year period.

Deaths from Prevalent Diseases in 40 Cities and Larger Towns of Massachusetts.

Two hundred and eighty deaths were reported from the principal infectious diseases: measles, 2; scarlet fever, 9; cerebro-spinal meningitis, 5; diphtheria and croup, 13; whooping-cough, 10; typhoid fever, 8; diarrhœal diseases, 175; puerperal fever, 1; small-pox, 1.

No deaths were reported from malarial fever, influenza or erysipelas.

There were 56 deaths from consumption, acute lung diseases, 40, still-births, 39.

From measles: Boston, 2. From scarlet fever: Boston, 2; Fall River, 1; New Bedford, 4; North Adams, 1; Chicopee, 1. From whooping-cough: Boston, 1; Lowell, 3; Lawrence, New Bedford, Brockton, Haverhill, Fitchburg and Revere, 1 each. From cerebro-spinal meningitis: Boston, 1; Worcester, 3; Weymouth, 1. From diphtheria and croup: Boston, 5; Fall River, Lowell, Lawrence, New Bedford, Somerville, Newburyport, Beverly and Adams, 1 each. From small-pox: Fall River, 1.

Deaths under five years of age numbered 355, as compared with 242 for the preceding week.

Deaths from the principal infectious diseases numbered 280, as compared with 217 for the preceding week.

The death rates for the week were: Boston, 17.67; Worcester, 18.51; Fall River, 21.15; Lowell, 32.64; Cambridge, 18.45; Lynn, 12.91; Lawrence, 24.58; Springfield, 14.23; Somerville, 15.26; New Bedford, 37.12; Holyoke, ——; Brockton, 11.59; Haverhill, 13.58; Newton, 9.62; Salem, 19.74; Malden, 22.92; Chelsea, 14.50; Fitchburg, 13.35; Taunton, 21.63; Everett, 14.54; No. Adams, 26.12; Gloucester, 9.96; Quincy, 17.97; Waltham, 12.38; Brookline, 11.50; Pittsfield, 13.81; Chicopee, 27.20; Medford, 17.37; Northampton, 20.90; Beverly, 20.39; Clinton, 10.29; Leominster, ——; Newburyport, 7.18; Woburn, ——; Hyde Park, 22.00; Adams, 18.92; Attleborough, ——; Marlborough, 22.94; Melrose, 11.47; Westfield, 23.28; Milford, ——; Revere, 24.56; Framingham, ——; Peabody, ——; Gardner, ——; Weymouth, 18.34; Southbridge, 18.45; Watertown, 13.84; Plymouth, ——.

The total death rate for the week was 14.35, as compared with 16.18 and 18.85 for the previous two weeks.

Cases of Infectious Diseases reported to the State Board of Health during the Week ending Aug. 1, 1903.

(Under the Provisions of section 52 of chapter 75, of the Revised Laws of Massachusetts.)

Scarlet fever,	54	Typhoid fever,	94
Diphtheria and croup,	85	Measles,	39
Small-pox,	5		

(SIGNED) **S. W. ABBOTT, M.D.,**
Secretary of the State Board of Health.

The Meteorological Record for the Week, in Boston, was as follows:

DATE.	BAROM-ETER.	THER-MOMETER.			RELATIVE HUMIDITY.			DIRECTION OF WIND.		VELOCITY OF WIND.			STATE OF WEATHER.*			RAIN-FALL.	
Week ending Saturday, Aug. 1, 1903.	MEAN.	MEAN.	MAXIMUM.	MINIMUM.	8 A.M.	8 P.M.		MEAN.	8 A.M.	8 P.M.	8 A.M.	8 P.M.		8 A.M.	8 P.M.		DURATION.	AMOUNT IN INCHES.
Sunday, July 26,	29.80	75	83	67	72	62		67	W.	N. W.	12	12		O.	C.			0.20
Monday, 27,	29.92	64	70	57	49	61		55	N. W.	N. W.	15	15		C.	C.			0.00
Tuesday, 28,	30.04	65	74	56	63	48		56	N. W.	S. W.	9	5		F.	F.			0.00
Wednesday, 29,	29.90	70	78	62	70	82		76	S.	S. W.	12	24		F.	O.			T
Thursday, 30,	29.78	80	90	70	86	91		88	S. W.	W.	8	8		F.	O.			0.56
Friday, 31,	29.98	70	76	63	67	88		78	W.	W.	10	5		C.	O.			0.02
Saturday, Aug. 1,	30.27	68	78	58	58	49		54	N.	N. W.	6	5		C.	F.			0.00
Week,	29.96		78	62				68										0.78

* O. = Cloudy; C. = Clear; F. = Fair; G. = Fog; H. = Hazy; S. = Smoky; R. = Rain; T. = Threatening; N. = Snow.

Weekly Bulletin

OF THE

STATE BOARD OF HEALTH

OF

MASSACHUSETTS

FOR THE

Week ending Saturday, Aug. 8, 1903.

An official publication of the State Board of Health of Massachusetts, published weekly at the office of the Board, State House, Boston, Mass.

VOL. XXI. No. 32.

Entered at the post-office at Boston as second-class matter.

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It also contains the reports of cases of infectious diseases returned by the boards of health of cities and towns.

Once in each month the work done under the Food and Drug Acts is also reported in this bulletin.

STATE BOARD OF HEALTH.

HENRY P. WALCOTT, M.D., Cambridge, *Chairman.*
JULIAN A. MEAD, M.D., Watertown.
HIRAM F. MILLS, C.E., Lawrence.
GERARD C. TOBEY, Esq., Wareham.
JAMES W. HULL, Pittsfield.
CHARLES H. PORTER, Quincy.
JOHN W. BARTOL, M.D., Boston.

SAMUEL W. ABBOTT, M.D., *Secretary.*

MORTALITY OF MASSACHUSETTS

For the Week ending Aug. 8, 1903.

Deaths reported to the State Board of Health in 41 Cities and Greater Towns.

The number of deaths *reported* each week does not exactly correspond with the number which *occurred* during that week, but the discrepancy is a slight one in most cases. The mortality report is published weekly, and contains the returns from such cities and towns having a population of more than 10,000 inhabitants as have sent to the office of the State Board of Health the death returns of the previous week.

We shall esteem it a great favor if all reporting towns will send us their returns weekly, as heretofore, upon postal cards provided for the purpose. A supply of these cards will be sent to any town clerk or health officer who has charge of such returns and is willing to comply with this request.

CITIES AND TOWNS.	*Population. Estimated for 1903.	Reported Deaths in Each.	Deaths under Five Years.	Deaths from Principal Infectious Diseases.	Acute Lung Diseases.	Phthisis.	Diphtheria and Croup.	Diarrhœal Diseases.	Typhoid Fever.
Boston,	603,163	170	77	38	13	10	1	23	3
Worcester,	132,044	42	24	17	1	..	..	15	..
Fall River,	115,549	54	36	18	3	2	..	15	..
Lowell,	101,959	66	35	25	1	3	..	22	..
Cambridge,	98,639	18	8	11	..	2	..	8	1
Lynn,	72,497	21	7	3	..	2	1	..	..
Lawrence,	69,766	19	10	9	1	2	..	7	..
Springfield,	69,389	24	7	6	3	2	..	4	..
Somerville,	68,110	16	8	4	2	..	..	2	..
New Bedford,	67,198	46	27	24	1	1	1	24	2
Holyoke,	49,286	22	13	6	2	1	1	4	..
Brockton,	44,873	6	1	1	..	1	..	..	..
Haverhill,	42,104	9	6	2	..	..	..	2	..
Newton,	37,794	9	2	5	..	..	1	2	1
Salem,	36,876	10	6	6	..	1	2	3	..
Malden,	36,286	11	8	6	..	..	..	6	..
Chelsea,	35,876	17	8	..	..	..	..	..	..
Fitchburg,	35,069	8	4	..	..	..	..	..	..
Taunton,	33,656	8	5	3	1	..	..	3	..
Everett,	28,620	7	..	2	..	1	..	1	..
North Adams,	27,862	8	5	5	..	..	1	2	..
Gloucester,	26,121	6	2	..	..	..	..	..	..
Quincy,	26,042	10	2	5	..	3	..	2	..
Waltham,	25,198	6	1	1	..	1	..	..	..
Brookline,	22,608	5	2	3	..	1	..	2	..
Pittsfield,	22,589	..	..	..	..	..	..	..	..
Chicopee,	21,031	7	5	3	..	..	..	3	..
Medford,	20,962	4	..	1	..	1	..	..	..
Northampton,	19,883	8	4	..	..	..	..	..	..
Beverly,	15,302	3	1	1	..	1	..	..	..
Clinton,	15,161	1	..	..	1	..	..	..	..
Leominster,	14,806	..	..	..	..	..	..	..	..
Newburyport,	14,478	4	0	..	..	..	..	..	..
Woburn,	14,300	8	..	5	1	1	..	2	..
Hyde Park,	14,175	6	3	4	..	..	..	2	..
Adams,	13,745	8	3	3	..	1	..	1	..
Attleborough,	13,677	3	2	2	..	..	..	2	..
Marlborough,	13,609	..	..	..	..	..	..	..	..
Melrose,	13,600	..	..	..	..	..	..	..	..
Westfield,	13,418	11	8	1	..	1	..	..	..
Milford,	13,129	..	..	..	..	..	..	..	..
Revere,	12,722	1	1	..	..	..	..	..	..
Framingham,	12,534	..	..	..	..	..	..	..	..
Peabody,	12,179	..	..	..	..	..	..	..	..
Gardner,	11,928	5	4	4	..	..	..	1	..
Weymouth,	11,344	5	1	4	..	1	..	..	1
Southbridge,	11,268	2	..	..	..	..	..	..	..
Watertown,	11,077	2	..	..	..	..	..	..	..
Plymouth,	10,730	..	..	..	..	..	..	..	..

RECAPITULATION.

	Population.	Deaths.	Deaths under Five.	Infectious Diseases.	Acute Lung Diseases.	Phthisis.	Diphtheria and Croup.	Diarrhœal Diseases.	Typhoid Fever.
Total of reporting towns,	2,141,056	696	336	228	30	39	8	158	8

Note.—*The populations of the Massachusetts cities were estimated upon the rate of growth from 1895 to 1900, since the State had an intermediate census in 1895. The populations of Gloucester, Marlborough and Newburyport were allowed to stand as in 1900, they having suffered a slight decrease during the five-year period.

Deaths from Prevalent Diseases in 41 Cities and Larger Towns of Massachusetts.

Three hundred and eighty-six deaths were reported from the principal infectious diseases: scarlet fever, 1; cerebro-spinal meningitis, 12; diphtheria and croup, 8; whooping-cough, 2; typhoid fever, 8; diarrhœal diseases, 158; puerperal fever, 1; small-pox, 1; erysipelas, 2.

No deaths were reported from malarial fever, influenza or measles.

There were 39 deaths from consumption, acute lung diseases, 30, still-births, 48.

From scarlet fever: North Adams, 1. From whooping-cough: North Adams, 1; Hyde Park, 1. From cerebro-spinal meningitis: Boston, 1; Worcester, 2; Somerville, 2; Newton, 1; Weymouth, 2; Adams, 1; Gardner, 3. From diphtheria and croup: Boston, 1; Lynn, 1; New Bedford, 1; Holyoke, 1; Salem, 2; Newton, 1; North Adams, 1. From small-pox: Fall River, 1.

Deaths under five years of age numbered 336, as compared with 355 for the preceding week.

Deaths from the principal infectious diseases numbered 228, as compared with 280 for the preceding week.

The death rates for the week were: Boston, 14.65; Worcester, 16.54; Fall River, 24.30; Lowell, 33.66; Cambridge, 9.49; Lynn, 15.06; Lawrence, 14.16; Springfield, 17.98; Somerville, 12.21; New Bedford, 35.59; Holyoke, 23.21; Brockton, 6.95; Haverhill, 11.11; Newton, 12.37; Salem, 14.10; Malden, 15.76; Chelsea, 24.65; Fitchburg, 11.86; Taunton, 12.36; Everett, 12.73; No. Adams, 14.93; Gloucester, 11.95; Quincy, 19.97; Waltham, 12.38; Brookline, 11.50; Pittsfield, ——; Chicopee, 17.30; Medford, 9.92; Northampton, 20.90; Beverly, 10.20; Clinton, 3.43; Leominster, ——; Newburyport, 14.36; Woburn, 29.09; Hyde Park, 22.01; Adams, 30.24; Attleborough, 11.40; Marlborough, ——; Melrose, ——; Westfield, 42.68; Milford, ——; Revere, 4.09; Framingham, ——; Peabody, ——; Gardner, 21.84; Weymouth, 22.92; Southbridge, 9.23; Watertown, 9.37; Plymouth, ——.

The total death rate for the week was 16.90, as compared with 14.35 and 16.18 for the previous two weeks.

Cases of Infectious Diseases reported to the State Board of Health during the Week ending Aug. 8, 1903.

(Under the Provisions of section 52 of chapter 75, of the Revised Laws of Massachusetts.)

Scarlet fever,	51	Typhoid fever,	54
Diphtheria and croup,	84	Measles,	45
Small-pox,	6		

(SIGNED) **S. W. ABBOTT, M.D.,**
Secretary of the State Board of Health.

The Meteorological Record for the Week, in Boston, was as follows:

DATE.	BAROM-ETER.	THER-MOMETER.			RELATIVE HUMIDITY.			DIRECTION OF WIND.		VELOCITY OF WIND.		STATE OF WEATHER.*		RAIN-FALL.	
Week ending Saturday, Aug. 8, 1903.	MEAN.	MEAN.	MAXIMUM.	MINIMUM.	8 A.M.	8 P.M.	MEAN.	8 A.M.	8 P.M.	8 A.M.	8 P.M.	8 A.M.	8 P.M.	DURATION.	AMOUNT IN INCHES.
Sunday, Aug. 2,	30.38	68	78	58	53	75	64	N. W.	E.	8	2	C.	F.		0.00
Monday, 3,	30.34	64	69	59	79	89	84	N.	E.	6	6	O.	C.		0.00
Tuesday, 4,	30.23	59	64	54	83	85	84	N. E.	S.	3	8	O.	R.		0.11
Wednesday, 5,	30.02	58	59	56	91	96	94	E.	N. E.	14	16	R.	R.		1.00
Thursday, 6,	29.95	60	62	58	96	97	96	N. E.	S. E.	11	9	R.	R.		0.32
Friday, 7,	29.84	68	78	58	97	64	80	S. W.	W.	6	10	R.	C.		0.12
Saturday, 8,	30.02	60	67	52	59	71	65	W.	S. W.	7	10	C.	C.		0.00
Week,	30.11		68	56			81								1.55

* O. = Cloudy; C. = Clear; F. = Fair; G. = Fog; H. = Hazy; S. = Smoky; R. = Rain; T. = Threatening; N. = Snow.

INSPECTION OF FOOD AND DRUGS.

The following summary presents the results of the examinations of Food and Drugs by the State Board of Health in the month of July, 1903: —

ARTICLES EXAMINED.	Number found to be of good quality.	Number adulterated or varying from the legal standard.	TOTAL.	ARTICLES EXAMINED.	Number found to be of good quality.	Number adulterated or varying from the legal standard.	TOTAL.
Milk, . . .	463	84	547	Canned Goods, .	..	..	..
Butter, . . .	3	1	4	Honey, . . .	..	3	3
Cheese, . . .	2	5	7	Tea, . . .	1	..	1
Lard, . . .	..	..	..	Coffee, . . .	8	..	8
Olive Oil, . . .	..	..	..	Cocoa and Chocolate,	..	4	4
Vinegar, . . .	7	2	9	Confectionery, .	..	..	..
Spices, . . .	109	8	117	Lemon Extract, .	1	1	2
Cream of Tartar, .	17	1	18	Vanilla Extract, .	3	..	3
Molasses, . . .	6	..	6	Miscellaneous, .	6	6	12
Syrups, . . .	..	..	..	Drugs, . . .	56	38	94
Maple Sugar, . .	..	..	..				
Maple Syrup, . .	..	..	..				
				Totals, . .	682	153	835

Percentage of adulteration, 18.3. The actual ratio of adulteration is very much less than this, since it is only suspicious articles of food to which the attention of the Board is directed. Certain staple products, such as sugar, flour, and the various other cereal products, are very rarely adulterated and require but little inspection. The work of the Board is therefore mainly devoted to the inspection of such articles as it has found, by several years of experience, to be especially liable to adulteration.

The ratio of samples of milk found to be below the standard was 15.4 per cent., while the percentage of articles of food was 15.6 per cent.

Four complaints were entered in the courts during the month for violation of the laws relative to the inspection of Food and Drugs.

The samples of drugs found to be adulterated were Aqua Ammonia, Aqua Destillata, Capsicum, Cera Alba, Cera Flava, Chloroformum, Oleum Limonis, Oleum Olivæ, Phenacetine, Spiritus Mentha, Piperitæ, Sulphur Lotum, Sulphur Præcipitatum, Tinctura Iodi, and Vini Rubrum.

Cities and towns from which samples of food were collected were Boston, Fall River, Marlborough, Brockton, Haverhill, Natick, Athol, Salem, Somerville, Holyoke, Amherst, Lenox, Pittsfield, Braintree, Manchester, Webster, Attleborough, Gardner, Dover, Chelsea, Revere, Hyde Park, Taunton, Norwood, Walpole, Cambridge, Winthrop, Malden, Lawrence, Lowell and Medford.

RECORD OF PROSECUTIONS IN JULY, 1903.

No.	Date of Trial.	Name of Defendant.	Place.	Character of Articles Sold.	Result of Trial.
1	June 24,	Geo. P. Beckford,	Plymouth,	Milk,	Nol prossed.
2	June 30,	Geo. F. Smith,	Dartmouth,	Milk,	Conviction.
3	July 8,	Josiah W. Beckford,	Plymouth,	Milk,	Not Guilty.
4	July 30,	Patrick J. Connolly,	Dover,	Milk,	Conviction.

The total solids in samples of milk, upon which the foregoing cases Nos. 2 and 4 were entered, were as follows:—

9.84 and 10.25. Total amount of fines, $37.66.

Commonwealth of Massachusetts.—State Board of Health.

Publication of Results of Analyses of Certain Articles of Food, required by Chapter 272, of the Acts of 1902.

For the Months of June and July, 1903.

Number of Sample.	Date of Collection.	City or Town where Purchased.	Character of Sample.	Brand or Name of Manufacturer, Wholesaler or Producer.	Results of Analyses.
8283 L	June 3,	No. Adams.	Cheese.	MacLaren's Imperial Cheese.	Preserved with boric acid.
48087	July 23,	Boston.	Cheese.	Heifer Brand, Neufchatel Cream Cheese.	Skim milk cheese colored with a coal tar dye. Fat 1.35 %.
48097	July 24,	Boston.	Cheese.	Royal Neufchatel Cheese.	Skim milk cheese. Fat 7.60 %.
48062	July 20,	Woburn.	Honey.	Pure California Honey with granulated sugar to prevent crystalization.	40 % cane sugar.
47868	July 1,	Cambridge.	Lime Juice.	Bee Brand. Geo. M. Bentley Co., Boston.	Citric acid 4.68 %. Watered and preserved with benzoic acid. No formula.
47872	July 1,	Boston.	Lime Juice.	Montego.	Citric acid 2.19 %. Watered. No formula.
48086	July 23,	Cambridge.	Lime Juice.	Cole & Smith, Boston.	Citric acid 3.36 %. Watered, colored with a coal tar dye, preserved with salicylic and sulphurous acids. No formula naming per cent of ingredients.
47914	July 6,	Somerville.	Lemon Juice.	Flanders Double Refined Lemon Juice. Fred E. Flanders, 36 Beach St., Boston.	Citric acid 1.86 %. Watered to an extent of 73 %, and colored with a coal tar dye. No formula.
48014	July 14,	Lowell.	Baking Powder.	Pilgrim Baking Powder. Pilgrim Baking Powder Co., Boston.	Alum, phosphate powder. No formula.
47915	July 6,	Somerville.	Henderson's Orange Phosphate.	Henderson & Co., N. Y. & Boston.	Contains no phosphate. Colored.
8105 L	May 26,	So. Boston.	Wild Strawberry Jam.	F. P. Adams & Co., Boston.	Preserved with salicylic acid. No formula.
3004 K	July 24,	Chelsea.	Lemon Extract.	S. A. Folsom & Co., Boston.	Contains no lemon oil.
2328 K	June 27,	Clinton.	Cocoa.	Gondar Brand. R. T. Ervin & Co., Phila.	Large admixture of corn starch and sugar.
8993 L	July 22,	Roxbury.	Cocoa.	"Favorite Breakfast". J. T. Connor, Boston.	Admixture of wheat starch.
9177 L	July 28,	Pittsfield.	Mustard.	Auco Brand. Auco Spice Mills, N. Y.	Large admixture of turmeric.
8991 L	July 22,	Roxbury.	Pepper.	Challenge Mills, N. Y. & Boston.	Large excess of pepper shells.
47818	June 27,	Fitchburg.	Borax.	Acme Brand. L. Beling & Co., N. Y.	Admixture of sodium carbonate.

Weekly Bulletin

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MORTALITY OF MASSACHUSETTS

For the Week ending Aug. 15, 1903.

Deaths reported to the State Board of Health in 38 Cities and Greater Towns.

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Worcester,	132,044	36	12	10	1	1	..	7	..
Fall River,	115,549	38	18	23	3	4	..	16	3
Lowell,	101,959	51	33	22	1	..	1	21	..
Cambridge,	98,639	27	10	9	..	6	..	2	..
Lynn,	72,497	18	6	1	..	..	..	1	..
Lawrence,	69,766	18	11	10	..	1	..	9	..
Springfield,	69,389	19	8	7	..	2	..	5	..
Somerville,	68,110	16	7	4	..	2	1	1	..
New Bedford,	67,198	39	23	17	2	1	1	14	..
Holyoke,	49,286	..	..	..	..	..	..	..	..
Brockton,	44,873	8	4	1	..	1	..	..	..
Haverhill,	42,104	14	6	8	..	4	..	4	..
Newton,	37,794	7	2	..	..	..	..	..	..
Salem,	36,876	15	10	6	..	..	..	6	..
Malden,	36,286	11	4	4	..	2	..	2	..
Chelsea,	35,876	10	4	1	..	1	..	..	..
Fitchburg,	35,069	7	4	1	..	..	..	..	..
Taunton,	33,656	11	5	2	2	1	..	1	..
Everett,	28,620	..	..	..	..	..	..	..	..
North Adams,	27,862	12	6	4	..	1	..	1	..
Gloucester,	26,121	6	2	3	..	..	1	1	..
Quincy,	26,042	11	4	3	..	1	..	1	..
Waltham,	25,198	5	1	..	..	..	..	..	..
Brookline,	22,608	..	..	..	..	..	..	..	..
Pittsfield,	22,589	4	1	..	..	..	..	..	..
Chicopee,	21,031	9	8	4	..	..	..	4	..
Medford,	20,962	2	1	..	..	..	..	..	..
Northampton,	19,883	5	0	1	..	1	..	..	..
Beverly,	15,302	..	..	..	..	..	..	..	..
Clinton,	15,161	5	2	1		1	..	..	..
Leominster,	14,806	..	..	..	..	..	..	..	..
Newburyport,	14,478	4	2	1	..	..	..	1	..
Woburn,	14,300	6	6	5		..	..	4	..
Hyde Park,	14,175	3	1	2	..	1	..	1	..
Adams,	13,745	5	2	2	..	..	..	2	..
Attleborough,	13,677	..	..	..	..	..	..	..	..
Marlborough,	13,609	4	1	2	..	1	..	1	..
Melrose,	13,600	..	..	..	..	..	..	..	..
Westfield,	13,418	9	5	2	1	..	1	1	..
Milford,	13,129	..	..	..	..	..	..	..	..
Revere,	12,722	1	..	..	..	..	..	..	..
Framingham,	12,534	2	1	..	..	..	..	..	..
Peabody,	12,179	..	..	..	..	..	..	..	..
Gardner,	11,928	1	1	1	..	..	..	1	..
Weymouth,	11,344	3	0	..	1	..	..	..	..
Southbridge,	11,268	..	..	..	..	..	..	..	..
Watertown,	11,077	7	2	2	..	..	..	2	..
Plymouth,	10,730	..	..	..	..	..	..	..	..

RECAPITULATION.

	Population.	Deaths.	Deaths under Five.	Infectious Diseases.	Acute Lung Diseases.	Phthisis.	Diphtheria and Croup.	Diarrhœal Diseases.	Typhoid Fever.
Total of reporting towns,	2,049,018	656	282	212	21	47	9	134	8

Note.—*The populations of the Massachusetts cities were estimated upon the rate of growth from 1895 to 1900, since the State had an intermediate census in 1895. The populations of Gloucester, Marlborough and Newburyport were allowed to stand as in 1900, they having suffered a slight decrease during the five-year period.

Deaths from Prevalent Diseases in 38 Cities and Larger Towns of Massachusetts.

Two hundred and twelve deaths were reported from the principal infectious diseases: measles, 1; scarlet fever, 2; cerebro-spinal meningitis, 4; diphtheria and croup, 9; whooping-cough, 4; typhoid fever, 8; diarrhœal diseases, 134; erysipelas, 3; small-pox, 1.

No deaths were reported from malarial fever, influenza, small-pox or puerperal fever.

There were 47 deaths from consumption, acute lung diseases, 21, still-births, 31.

From measles: Quincy, 1. From scarlet fever: New Bedford, 1; North Adams, 1. From whooping-cough: Cambridge, Fitchburg, North Adams and Woburn, 1 each. From cerebro-spinal meningitis: Boston, 1; Worcester, 2; Gloucester, 1. From diphtheria and croup: Boston, 4; Lowell, New Bedford, Somerville, Gloucester and Westfield, 1 each. From erysipelas: Boston, 3.

Deaths under five years of age numbered 282, as compared with 336 for the preceding week.

Deaths from the principal infectious diseases numbered 212, as compared with 228 for the preceding week.

The death rates for the week were: Boston, 17.84; Worcester, 14.17; Fall River, 17.10; Lowell, 26.01; Cambridge, 14.23; Lynn, 12.91; Lawrence, 13.41; Springfield, 14.23; Somerville, 12.21; New Bedford, 30.18; Holyoke, ——; Brockton, 9.27; Haverhill, 17.29; Newton, 9.62; Salem, 21.15; Malden, 15.76; Chelsea, 14.50; Fitchburg, 10.38; Taunton, 17.00; Everett, ——; No. Adams, 22.39; Gloucester, 11.95; Quincy, 21.97; Waltham, 10.31; Brookline, ——; Pittsfield, 9.20; Chicopee, 22.26; Medford, 4.96; Northampton, 13.06; Beverly, ——; Clinton, 17.15; Leominster, ——; Newburyport, 14.36; Woburn, 21.81; Hyde Park, 11.00; Adams, 18.92; Attleborough, ——; Marlborough, 15.29; Melrose, ——; Westfield, 34.92; Milford, ——; Revere, 4.09; Framingham, 8.32; Peabody, ——; Gardner, 4.40; Weymouth, 13.75; Southbridge, ——; Watertown, 32.79; Plymouth, ——.

The total death rate for the week was 16.64, as compared with 16.90 and 14.35 for the previous two weeks.

Cases of Infectious Diseases reported to the State Board of Health during the Week ending Aug. 15, 1903.

(Under the Provisions of section 52 of chapter 75, of the Revised Laws of Massachusetts.)

Scarlet fever,	57	Typhoid fever,	80
Diphtheria and croup,	74	Measles,	23
Small-pox,	4		

(SIGNED) S. W. ABBOTT, M.D.,
Secretary of the State Board of Health.

The Meteorological Record for the Week, in Boston, was as follows:

DATE.	BAROM-ETER.	THER-MOMETER.			RELATIVE HUMIDITY.			DIRECTION OF WIND.		VELOCITY OF WIND.		STATE OF WEATHER.*		RAIN-FALL.	
Week ending Saturday, Aug. 15, 1903.	MEAN.	MEAN.	MAXIMUM.	MINIMUM.	8 A.M.	8 P.M.	MEAN.	8 A.M.	8 P.M.	8 A.M.	8 P.M.	8 A.M.	8 P.M.	DURATION.	AMOUNT IN INCHES.
Sunday, Aug. 9,	29.92	58	61	55	83	97	90	S.	E.	5	3	O.	O.		0.01
Monday, 10,	29.96	70	79	60	80	67	74	N. W.	W.	4	8	C.	C.		0.00
Tuesday, 11,	29.91	69	78	60	61	88	74	W.	S.	2	9	F.	O.		0.00
Wednesday, 12,	29.88	69	77	61	83	61	72	W.	W.	7	11	C.	C.		0.00
Thursday, 13,	30.08	64	72	56	58	61	60	N. W.	W.	12	7	C.	F.		0.00
Friday, 14,	30.10	66	77	56	72	58	65	W.	N. W.	7	3	C.	F.		0.00
Saturday, 15,	30.09	68	77	58	60	66	63	N. W.	S. E.	10	5	C.	C.		0.00
Week,	29.99		74	58			71								0.01

* O. = Cloudy; C. = Clear; F. = Fair; G. = Fog; H. = Hazy; S. = Smoky; R. = Rain; T. = Threatening; N. = Snow.

Weekly Bulletin

OF THE

STATE BOARD OF HEALTH

OF

MASSACHUSETTS

FOR THE

Week ending Saturday, Aug. 22, 1903.

An official publication of the State Board of Health of Massachusetts, published weekly at the office of the Board, State House, Boston, Mass.

VOL. XXI. No. 34.

Entered at the post-office at Boston as second-class matter.

This publication contains the returns of deaths made each week to the State Board of Health from cities and towns in Massachusetts having over 10,000 inhabitants in each.

It also contains the reports of cases of infectious diseases returned by the boards of health of cities and towns.

Once in each month the work done under the Food and Drug Acts is also reported in this bulletin.

STATE BOARD OF HEALTH.

HENRY P. WALCOTT, M.D., Cambridge, *Chairman.*
JULIAN A. MEAD, M.D., Watertown.
HIRAM F. MILLS, C.E., Lawrence.
GERARD C. TOBEY, Esq., Wareham.
JAMES W. HULL, Pittsfield.
CHARLES H. PORTER, Quincy.
JOHN W. BARTOL, M.D., Boston.

SAMUEL W. ABBOTT, M.D., *Secretary.*

MORTALITY OF MASSACHUSETTS

For the Week ending Aug. 22, 1903.

Deaths reported to the State Board of Health in 37 Cities and Greater Towns.

The number of deaths *reported* each week does not exactly correspond with the number which *occurred* during that week, but the discrepancy is a slight one in most cases. The mortality report is published weekly, and contains the returns from such cities and towns having a population of more than 10,000 inhabitants as have sent to the office of the State Board of Health the death returns of the previous week.

We shall esteem it a great favor if all reporting towns will send us their returns weekly, as heretofore, upon postal cards provided for the purpose. A supply of these cards will be sent to any town clerk or health officer who has charge of such returns and is willing to comply with this request.

CITIES AND TOWNS.	*Population. Estimated for 1903.	Reported Deaths in Each.	Deaths under Five Years.	Deaths from					
				Principal Infectious Diseases.	Acute Lung Diseases.	Phthisis.	Diphtheria and Croup.	Diarrhœal Diseases.	Typhoid Fever.
Boston,	603,163	203	81	66	12	18	7	38	1
Worcester,	132,044	44	26	12	1	..	..	12	..
Fall River,	115,549	43	27	24	3	3	..	20	..
Lowell,	101,959	39	21	16	..	2	1	12	1
Cambridge,	98,639	28	11	11	1	1	..	9	1
Lynn,	72,497	31	10	6	..	4	1	1	..
Lawrence,	69,766	20	11	9	..	1	1	6	1
Springfield,	69,389	14	1	3	1	1	..	1	..
Somerville,	68,110	13	5	3	..	1	..	2	..
New Bedford,	67,198	36	17	18	2	..	2	13	..
Holyoke,	49,286	..	..	..	..	..	..	..	..
Brockton,	44,873	6	2	2	..	..	..	..	1
Haverhill,	42,104	8	4	1	..	1	..	1	..
Newton,	37,794	7	4	3	..	..	..	3	..
Salem,	36,876	27	17	10	1	2	..	7	1
Malden,	36,286	14	2	..	..	..	..	..	..
Chelsea,	35,876	7	6	4	..	1	..	1	1
Fitchburg,	35,069	8	3	2	..	..	..	..	..
Taunton,	33,656	21	8	11	..	4	..	7	..
Everett,	28,620	4	1	..	1	..	..	..	..
North Adams,	27,862	16	4	5	..	2	1	2	..
Gloucester,	26,121	..	..	..	..	..	..	..	..
Quincy,	26,042	5	3	4	..	1	..	3	..
Waltham,	25,198	6	1	..	1	..	..	..	..
Brookline,	22,608	6	..	1	..	..	..	1	..
Pittsfield,	22,589	8	2	..	1	..	..	..	..
Chicopee,	21,031	5	2	2	..	..	..	2	..
Medford,	20,962	7	1	..	..	..	..	..	..
Northampton,	19,883	5	1	..	..	..	..	..	..
Beverly,	15,302	3	3	2	..	..	..	2	..
Clinton,	15,161	3	2	..	1	..	..	..	..
Leominster,	14,806	..	..	..	..	..	..	..	..
Newburyport,	14,478	8	1	3	..	2	..	..	1
Woburn,	14,300	5	2	..	1	..	..	..	..
Hyde Park,	14,175	..	..	..	..	..	..	..	..
Adams,	13,745	5	4	4	1	1	1	2	..
Attleborough,	13,677	..	..	..	..	..	..	..	..
Marlborough,	13,609	5	2	2	..	..	..	2	..
Melrose,	13,600	..	..	..	..	..	..	..	..
Westfield,	13,418	5	2	3	..	..	1	1	1
Milford,	13,129	..	..	..	..	..	..	..	..
Revere,	12,722	2	1	1	..	..	1	..	..
Framingham,	12,534	..	..	..	..	..	..	..	..
Peabody,	12,179	..	..	..	..	..	..	..	..
Gardner,	11,928	..	..	..	..	..	..	..	..
Weymouth,	11,344	6	2	2	..	..	..	2	..
Southbridge,	11,268	..	..	..	..	..	..	..	..
Watertown,	11,077	1	1	..	..	..	..	..	..
Plymouth,	10,730	..	..	..	..	..	..	..	..

RECAPITULATION.

	Population.	Deaths.	Deaths under Five.	Infectious Diseases.	Acute Lung Diseases.	Phthisis.	Diphtheria and Croup.	Diarrhœal Diseases.	Typhoid Fever.
Total of reporting towns,	2,050,799	674	291	230	27	45	16	150	9

Note.—*The populations of the Massachusetts cities were estimated upon the rate of growth from 1895 to 1900, since the State had an intermediate census in 1895. The populations of Gloucester, Marlborough and Newburyport were allowed to stand as in 1900, they having suffered a slight decrease during the five-year period.

Deaths from Prevalent Diseases in 37 Cities and Larger Towns of Massachusetts.

Two hundred and thirty deaths were reported from the principal infectious diseases: scarlet fever, 4; cerebro-spinal meningitis, 4; diphtheria and croup, 16; whooping-cough, 3; typhoid fever, 9; diarrhœal diseases, 150.

No deaths were reported from malarial fever, influenza, measles, erysipelas, small-pox or puerperal fever.

There were 45 deaths from consumption, acute lung diseases, 27, still-births, 42.

From scarlet fever: Boston, 1; New Bedford, 3. From whooping-cough: Fall River, 1; Fitchburg, 2. From cerebro-spinal meningitis: Boston, Springfield, Chelsea and Marlborough, 1 each. From diphtheria and croup: Boston, 7; New Bedford, 2; and Lowell, Lynn, Lawrence, North Adams, Westfield, Adams and Revere, 1 each.

Deaths under five years of age numbered 291, as compared with 282 for the preceding week.

Deaths from the principal infectious diseases numbered 230, as compared with 212 for the preceding week.

The death rates for the week were: Boston, 17.50; Worcester, 17.33; Fall River, 19.35; Lowell, 19.89; Cambridge, 14.76; Lynn, 22.23; Lawrence, 14.90; Springfield, 10.49; Somerville, 9.92; New Bedford, 27.85; Holyoke, ——; Brockton, 6.95; Haverhill, 9.88; Newton, 9.62; Salem, 38.07; Malden, 20.06; Chelsea, 10.15; Fitchburg, 11.86; Taunton, 32.44; Everett, 7.27; No. Adams, 29.85; Gloucester, ——; Quincy, 9.98; Waltham, 12.38; Brookline, 13.80; Pittsfield, 18.41; Chicopee, 12.36; Medford, 17.37; Northampton, 13.06; Beverly, 10.20; Clinton, 10.29; Leominster, ——; Newburyport, 28.72; Woburn, 18.18; Hyde Park, ——; Adams, 18.92; Attleborough, ——; Marlborough, 19.10; Melrose, ——; Westfield, 19.40; Milford, ——; Revere, 8.19; Framingham, ——; Peabody, ——; Gardner, ——; Weymouth, 27.51; Southbridge, ——; Watertown, 4.68; Plymouth, ——.

The total death rate for the week was 17.08, as compared with 16.64 and 16.90 for the previous two weeks.

Cases of Infectious Diseases reported to the State Board of Health during the Week ending Aug. 22, 1903.

(Under the Provisions of section 52 of chapter 75, of the Revised Laws of Massachusetts.)

Scarlet fever,	68	Typhoid fever,	154
Diphtheria and croup,	95	Measles,	35
Small-pox,	7		

(SIGNED) **S. W. ABBOTT, M.D.,**
Secretary of the State Board of Health.

The Meteorological Record for the Week, in Boston, was as follows:

DATE.	BAROM-ETER.	THER-MOMETER.			RELATIVE HUMIDITY.			DIRECTION OF WIND.		VELOCITY OF WIND.			STATE OF WEATHER.*			RAIN-FALL.	
Week ending Saturday, Aug. 22, 1903.	MEAN.	MEAN.	MAXIMUM.	MINIMUM.	8 A.M.	8 P.M.	MEAN.	8 A.M.	8 P.M.	8 A.M.	8 P.M.		8 A.M.	8 P.M.		DURATION.	AMOUNT IN INCHES.
Sunday, Aug. 16,	30.06	64	69	60	72	92	82	N. W.	N. W.	3	7		O.	R.			T
Monday, 17,	30.02	70	78	61	78	70	74	N. W.	E.	3	3		C.	C.			0.10
Tuesday, 18,	30.06	66	73	59	73	74	74	N. W.	S.	4	10		F.	C.			0.00
Wednesday, 19,	29.97	72	80	64	81	79	80	S. W.	S.	10	10		C.	C.			0.00
Thursday, 20,	29.74	71	77	65	93	85	89	S.	N.	3	5		O.	O.			0.22
Friday, 21,	29.94	70	79	62	66	74	70	N. W.	S. W.	12	13		C.	C.			0.00
Saturday, 22,	29.73	74	86	63	76	66	71	S. W.	W.	11	12		C.	O.			0.00
Week,	29.93		77	62			77										0.32

* O. = Cloudy; C. = Clear; F. = Fair; G. = Fog; H. = Hazy; S. = Smoky; R. = Rain; T. = Threatening; N. = Snow.

Weekly Bulletin

OF THE

STATE BOARD OF HEALTH

OF

MASSACHUSETTS

FOR THE

Week ending Saturday, Aug. 29, 1903.

An official publication of the State Board of Health of Massachusetts, published weekly at the office of the Board, State House, Boston, Mass.

VOL. XXI. No. 35.

Entered at the post-office at Boston as second-class matter.

This publication contains the returns of deaths made each week to the State Board of Health from cities and towns in Massachusetts having over 10,000 inhabitants in each.

It also contains the reports of cases of infectious diseases returned by the boards of health of cities and towns.

Once in each month the work done under the Food and Drug Acts is also reported in this bulletin.

STATE BOARD OF HEALTH.

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JAMES W. HULL, Pittsfield.
CHARLES H. PORTER, Quincy.
JOHN W. BARTOL, M.D., Boston.

SAMUEL W. ABBOTT, M.D., *Secretary.*

MORTALITY OF MASSACHUSETTS

For the Week ending Aug. 29, 1903.

Deaths reported to the State Board of Health in 43 Cities and Greater Towns.

The number of deaths *reported* each week does not exactly correspond with the number which *occurred* during that week, but the discrepancy is a slight one in most cases. The mortality report is published weekly, and contains the returns from such cities and towns having a population of more than 10,000 inhabitants as have sent to the office of the State Board of Health the death returns of the previous week.

We shall esteem it a great favor if all reporting towns will send us their returns weekly, as heretofore, upon postal cards provided for the purpose. A supply of these cards will be sent to any town clerk or health officer who has charge of such returns and is willing to comply with this request.

CITIES AND TOWNS.	*Population. Estimated for 1903.	Reported Deaths in Each.	Deaths under Five Years.	Deaths from: Principal Infectious Diseases.	Acute Lung Diseases.	Phthisis.	Diphtheria and Croup.	Diarrhœal Diseases.	Typhoid Fever.
Boston,	603,163	180	66	68	11	21	3	39	2
Worcester,	132,044	32	12	13	1	3	..	9	..
Fall River,	115,549	39	21	13	5	1	..	9	2
Lowell,	101,959	46	28	15	3	1	..	13	1
Cambridge,	98,639	28	15	9	..	2	..	7	..
Lynn,	72,497	18	6	3	..	1	..	..	1
Lawrence,	69,766	26	18	14	..	2	..	11	..
Springfield,	69,389	24	5	5	2	1	1	3	..
Somerville,	68,110	18	9	7	2	1	..	4	..
New Bedford,	67,198	40	20	20	1	3	..	14	1
Holyoke,	49,286	11	5	4	..	2	..	2	..
Brockton,	44,873	9	3	3	..	2	1	..	..
Haverhill,	42,104	14	4	2	..	1	..	1	..
Newton,	37,794	7	1	2	..	1	..	..	..
Salem,	36,876	16	8	5	..	..	..	5	..
Malden,	36,286	4	0	3	..	2	..	..	1
Chelsea,	35,876	8	1	1	..	..	..	1	..
Fitchburg,	35,069	12	3	3	..	2	1	..	..
Taunton,	33,656	..	..	..	..	..	..	..	..
Everett,	28,620	4	4	3	..	..	..	2	..
North Adams,	27,862	6	..	2	..	..	1	..	..
Gloucester,	26,121	7	1	1	..	..	1	..	..
Quincy,	26,042	10	6	6	..	..	..	5	..
Waltham,	25,198	5	2	..	..	..	..	..	..
Brookline,	22,608	2	..	..	1	..	..	..	..
Pittsfield,	22,589	5	1	..	..	..	..	..	..
Chicopee,	21,031	1	1	..	..	..	..	..	..
Medford,	20,962	2	..	..	..	..	..	..	..
Northampton,	19,883	4	1	..	..	..	..	..	..
Beverly,	15,302	4	4	1	..	..	..	1	..
Clinton,	15,161	7	2	1	1	..	..	1	..
Leominster,	14,806	..	..	..	..	..	..	..	..
Newburyport,	14,478	6	3	2	1	1	..	1	..
Woburn,	14,300	2	2	..	..	..	..	..	..
Hyde Park,	14,175	2	0	..	..	..	..	..	..
Adams,	13,745	2	..	1	..	1	..	..	..
Attleborough,	13,677	..	..	..	..	..	..	..	..
Marlborough,	13,609	7	5	4	..	..	..	3	..
Melrose,	13,600	5	..	2	..	2	..	..	..
Westfield,	13,418	6	3	1	1	..	1	..	..
Milford,	13,129	..	..	..	..	..	..	..	..
Revere,	12,722	3	1	1	..	..	..	1	..
Framingham,	12,534	4	1	2	1	1	..	1	..
Peabody,	12,179	..	..	..	..	..	..	..	..
Gardner,	11,928	4	1	..	1	..	..	..	..
Weymouth,	11,344	3	1	1	..	..	..	1	..
Southbridge,	11,268	5	2	1	..	..	..	1	..
Watertown,	11,077	1	..	1	..	1	..	..	..
Plymouth,	10,730	..	..	..	..	..	..	..	..

RECAPITULATION.

	Population.	Deaths.	Deaths under Five.	Infectious Diseases.	Acute Lung Diseases.	Phthisis.	Diphtheria and Croup.	Diarrhœal Diseases.	Typhoid Fever.
Total of reporting towns,	2,156,055	639	266	220	31	52	9	135	8

Note.—*The populations of the Massachusetts cities were estimated upon the rate of growth from 1895 to 1900, since the State had an intermediate census in 1895. The populations of Gloucester, Marlborough and Newburyport were allowed to stand as in 1900, they having suffered a slight decrease during the five-year period.

Deaths from Prevalent Diseases in 43 Cities and Larger Towns of Massachusetts.

Two hundred and twenty deaths were reported from the principal infectious diseases: scarlet fever, 6; cerebro-spinal meningitis, 6; diphtheria and croup, 9; whooping-cough, 4; typhoid fever, 8; diarrhœal diseases, 135.

No deaths were reported from malarial fever, influenza, measles, erysipelas, small-pox or puerperal fever.

There were 52 deaths from consumption, acute lung diseases, 31, still-births, 43.

From scarlet fever: Boston, Fall River, Lawrence and North Adams, 1 each; New Bedford, 2. From whooping-cough: Lynn, Newton, Everett and Quincy, 1 each. From cerebro-spinal meningitis: Boston, 2; Worcester, 1; Somerville, 2; Marlborough, 1. From diphtheria and croup: Boston, 3; Springfield, Brockton, Fitchburg, Gloucester, North Adams and Westfield, 1 each.

Deaths under five years of age numbered 266, as compared with 291 for the preceding week.

Deaths from the principal infectious diseases numbered 220, as compared with 230 for the preceding week.

The death rates for the week were: Boston, 15.52; Worcester, 12.60; Fall River, 17.55; Lowell, 23.46; Cambridge, 14.76; Lynn, 12.91; Lawrence, 19.38; Springfield, 17.97; Somerville, 13.64; New Bedford, 30.95; Holyoke, 11.60; Brockton, 10.43; Haverhill, 17.29; Newton, 9.62; Salem, 22.56; Malden, 5.73; Chelsea, 11.60; Fitchburg, 27.79; Taunton, ——; Everett, 7.27; No. Adams, 11.20; Gloucester, 13.94; Quincy, 19.97; Waltham, 10.31; Brookline, 4.60; Pittsfield, 11.51; Chicopee, 2.10; Medford, 4.96; Northampton, 10.45; Beverly, 13.59; Clinton, 24.00; Leominster, ——; Newburyport, 23.54; Woburn, 7.27; Hyde Park, 7.34; Adams, 7.57; Attleborough, ——; Marlborough, 26.76; Melrose, 19.11; Westfield, 23.28; Milford, ——; Revere, 12.28; Framingham, 16.64; Peabody, ——; Gardner, 17.48; Weymouth, 13.75; Southbridge, 23.07; Watertown, 4.68; Plymouth, ——.

The total death rate for the week was 15.41, as compared with 17.08 and 16.64 for the previous two weeks.

Cases of Infectious Diseases reported to the State Board of Health during the Week ending Aug. 29, 1903.

(Under the Provisions of section 52 of chapter 75, of the Revised Laws of Massachusetts.)

Scarlet fever,	61	Typhoid fever,	112
Diphtheria and croup,	91	Measles,	14
Small-pox,	4		

(SIGNED) **S. W. ABBOTT, M.D.,**
Secretary of the State Board of Health.

The Meteorological Record for the Week, in Boston, was as follows:

DATE.	BAROM-ETER.	THER-MOMETER.			RELATIVE HUMIDITY.			DIRECTION OF WIND.		VELOCITY OF WIND.		STATE OF WEATHER.*		RAIN-FALL.	
Week ending Saturday, Aug. 29, 1903.	MEAN.	MEAN.	MAXIMUM.	MINIMUM.	8 A.M.	8 P.M.	MEAN.	8 A.M.	8 P.M.	8 A.M.	8 P.M.	8 A.M.	8 P.M.	DURATION.	AMOUNT IN INCHES.
Sunday, Aug. 23,	29.81	75	85	65	61	39	50	E.	W.	10	8	C.	F.		0.00
Monday, 24,	29.96	66	70	62	64	75	70	N.	E.	9	4	F.	C.		0.00
Tuesday, 25,	29.88	60	63	57	89	97	93	W.	N. E.	5	8	O.	O.		0.60
Wednesday, 26,	29.98	59	62	56	94	89	92	N.	S. E.	10	4	O.	O.		T
Thursday, 27,	30.07	62	68	57	77	77	77	N.	S.	8	5	F.	O.		0.00
Friday, 28,	30.13	64	68	59	86	63	74	S.	S. E.	3	8	O.	O.		0.00
Saturday, 29,	30.16	60	62	58	86	91	88	E.	N. E.	20	12	R.	O.		0.13
Week,	30.00		68	59			78								0.73

* O. = Cloudy; C. = Clear; F. = Fair; G. = Fog; H. = Hazy; S. = Smoky; R. = Rain; T. = Threatening; N. = Snow.

Weekly Bulletin

OF THE

STATE BOARD OF HEALTH

OF

MASSACHUSETTS

FOR THE

Week ending Saturday, Sept. 5, 1903.

An official publication of the State Board of Health of Massachusetts, published weekly at the office of the Board, State House, Boston, Mass.

VOL. XXI. No. 36.

Entered at the post-office at Boston as second-class matter.

This publication contains the returns of deaths made each week to the State Board of Health from cities and towns in Massachusetts having over 10,000 inhabitants in each.

It also contains the reports of cases of infectious diseases returned by the boards of health of cities and towns.

Once in each month the work done under the Food and Drug Acts is also reported in this bulletin.

STATE BOARD OF HEALTH.

HENRY P. WALCOTT, M.D., Cambridge, *Chairman.*
JULIAN A. MEAD, M.D., Watertown.
HIRAM F. MILLS, C.E., Lawrence.
GERARD C. TOBEY, Esq., Wareham.
JAMES W. HULL, Pittsfield.
CHARLES H. PORTER, Quincy.
JOHN W. BARTOL, M.D., Boston.

SAMUEL W. ABBOTT, M.D., *Secretary.*

MORTALITY OF MASSACHUSETTS

For the Week ending Sept. 5, 1903.

Deaths reported to the State Board of Health in 37 Cities and Greater Towns.

The number of deaths *reported* each week does not exactly correspond with the number which *occurred* during that week, but the discrepancy is a slight one in most cases. The mortality report is published weekly, and contains the returns from such cities and towns having a population of more than 10,000 inhabitants as have sent to the office of the State Board of Health the death returns of the previous week.

We shall esteem it a great favor if all reporting towns will send us their returns weekly, as heretofore, upon postal cards provided for the purpose. A supply of these cards will be sent to any town clerk or health officer who has charge of such returns and is willing to comply with this request.

CITIES AND TOWNS.	*Population. Estimated for 1903.	Reported Deaths in Each.	Deaths under Five Years.	Deaths from: Principal Infectious Diseases.	Acute Lung Diseases.	Phthisis.	Diphtheria and Croup.	Diarrhœal Diseases.	Typhoid Fever.
Boston,	603,163	208	86	77	10	24	3	38	7
Worcester,	132,044	42	8	8	2	2	..	5	..
Fall River,	115,549	42	25	17	5	1	..	16	..
Lowell,	101,959	34	20	15	4	3	..	10	2
Cambridge,	98,639	23	8	5	..	1	..	4	..
Lynn,	72,497	20	..	4	..	2	1	1	..
Lawrence,	69,766	20	8	4	1	..	..	3	1
Springfield,	69,389	..	..	..	..	..	..	..	..
Somerville,	68,110	13	2	3	1	2	..	1	..
New Bedford,	67,198	30	13	17	..	4	1	9	..
Holyoke,	49,286	11	5	5	..	2	..	3	..
Brockton,	44,873	7	4	1	..	..	..	..	..
Haverhill,	42,104	12	2	4	1	3	..	1	..
Newton,	37,794	11	4	7	..	1	..	3	1
Salem,	36,876	11	5	2	1	..	..	..	..
Malden,	36,286	7	2	4	..	2	..	2	..
Chelsea,	35,876	13	7	..	..	..	..	..	..
Fitchburg,	35,069	..	..	..	..	..	..	..	..
Taunton,	33,656	16	7	3	..	1	..	2	..
Everett,	28,620	4	3	..	..	..	..	..	..
North Adams,	27,862	9	6	3	..	..	..	1	..
Gloucester,	26,121	..	..	..	..	..	..	..	..
Quincy,	26,042	5	2	3	..	1	..	2	..
Waltham,	25,198	1	..	..	..	..	..	..	..
Brookline,	22,608	3	..	1	..	1	..	..	..
Pittsfield,	22,589	..	..	..	..	..	..	..	..
Chicopee,	21,031	4	3	1	1	..	..	1	..
Medford,	20,962	5	2	1	1	1	..	..	..
Northampton,	19,883	3	1	..	..	..	..	..	..
Beverly,	15,302	..	..	..	..	..	..	..	..
Clinton,	15,161	3	..	1	..	1	..	..	..
Leominster,	14,806	..	..	..	..	..	..	..	..
Newburyport,	14,478	4	0	..	2	..	..	..	..
Woburn,	14,300	..	..	..	..	..	..	..	..
Hyde Park,	14,175	7	1	1	..	..	..	1	..
Adams,	13,745	4	..	3	..	1	..	1	1
Attleborough,	13,677	1	..	..	..	..	..	..	..
Marlborough,	13,609	4	2	2	..	..	..	1	..
Melrose,	13,600	3	1	..	1	..	..	..	..
Westfield,	13,418	5	2	1	..	..	..	..	..
Milford,	13,129	..	..	..	..	..	..	..	..
Revere,	12,722	2	..	..	..	..	..	..	..
Framingham,	12,534	6	3	2	..	..	..	2	..
Peabody,	12,179	..	..	..	..	..	..	..	..
Gardner,	11,928	..	..	..	..	..	..	..	..
Weymouth,	11,344	1	1	..	..	..	..	..	..
Southbridge,	11,268	..	..	..	..	..	..	..	..
Watertown,	11,077	3	1	1	..	1	..	..	..
Plymouth,	10,730	..	..	..	..	..	..	..	..

RECAPITULATION.

	Population.	Deaths.	Deaths under Five.	Infectious Diseases.	Acute Lung Diseases.	Phthisis.	Diphtheria and Croup.	Diarrhœal Diseases.	Typhoid Fever.
Total of reporting towns,	1,999,422	597	234	196	30	54	5	107	12

Note.—*The populations of the Massachusetts cities were estimated upon the rate of growth from 1895 to 1900, since the State had an intermediate census in 1895. The populations of Gloucester, Marlborough and Newburyport were allowed to stand as in 1900, they having suffered a slight decrease during the five-year period.

Deaths from Prevalent Diseases in 37 Cities and Larger Towns of Massachusetts.

One hundred and ninety-six deaths were reported from the principal infectious diseases: scarlet fever, 5; cerebro-spinal meningitis, 6; diphtheria and croup, 5; whooping-cough, 7; typhoid fever, 12; diarrhœal diseases, 107.

No deaths were reported from malarial fever, small-pox, influenza, puerperal fever or erysipelas.

There were 54 deaths from consumption, acute lung diseases, 30, still-births, 38.

From scarlet fever: New Bedford, 3; North Adams, 2. From cerebro-spinal meningitis: Boston, 2; Worcester, 1; Brockton, 1; Salem, 1; Marlborough, 1. From whooping-cough: Boston, 3; Salem, 1; Newton, 2; Westfield, 1. From diphtheria and croup: Boston, 3; Lynn, 1; New Bedford, 1.

Deaths under five years of age numbered 234, as compared with 266 for the preceding week.

Deaths from the principal infectious diseases numbered 196, as compared with 220 for the preceding week.

The death rates for the week were: Boston, 17.93; Worcester, 16.54; Fall River, 18.90; Lowell, 17.34; Cambridge, 12.12; Lynn, 14.34; Lawrence, 14.90; Springfield, ——; Somerville, 9.92; New Bedford, 23.21; Holyoke, 11.60; Brockton, 8.11; Haverhill, 14.82; Newton, 15.12; Salem, 15.51; Malden, 10.03; Chelsea, 18.85; Fitchburg, ——; Taunton, 24.72; Everett, 7.27; No. Adams, 16.79; Gloucester, ——; Quincy, 9.98; Waltham, 2.06; Brookline, 6.90; Pittsfield, ——; Chicopee, 9.89; Medford, 12.40; Northampton, 7.84; Beverly, ——; Clinton, 10.29; Leominster, ——; Newburyport, 14.36; Woburn, ——; Hyde Park, 25.68; Adams, 15.13; Attleborough, 3.80; Marlborough, 15.29; Melrose, ——; Westfield, 19.40; Milford, ——; Revere, 8.19; Framingham, 24.96; Peabody, ——; Gardner, ——; Weymouth, 4.58; Southbridge, ——; Watertown, 14.05; Plymouth, ——.

The total death rate for the week was 15.52, as compared with 15.41 and 17.08 for the previous two weeks.

Cases of Infectious Diseases reported to the State Board of Health during the Week ending Sept. 5, 1903.

(Under the Provisions of section 52 of chapter 75, of the Revised Laws of Massachusetts.)

Scarlet fever,	32	Typhoid fever,	107
Diphtheria and croup,	111	Measles,	23
Small-pox,	4		

(SIGNED) **S. W. ABBOTT, M.D.,**
Secretary of the State Board of Health.

The Meteorological Record for the Week, in Boston, was as follows:

DATE.	BAROM-ETER.	THER-MOMETER.			RELATIVE HUMIDITY.			DIRECTION OF WIND.		VELOCITY OF WIND.		STATE OF WEATHER.*			RAIN-FALL.	
Week ending Saturday, Sept. 5, 1903.	MEAN.	MEAN.	MAXIMUM.	MINIMUM.	8 A.M.	8 P.M.	MEAN.	8 A.M.	8 P.M.	8 A.M.	8 P.M.	8 A.M.	8 P.M.		DURATION.	AMOUNT IN INCHES.
Sunday, Aug. 30,	30.13	58	60	56	89	97	93	N. E.	N. E.	24	20	R.	R.			0.53
Monday, 31,	29.97	58	62	53	97	92	94	N.	N. W.	14	3	R.	O.			0.19
Tuesday, Sept. 1,	29.99	68	77	58	84	83	84	N. W.	S. W.	5	9	O.	C.			0.00
Wednesday, 2,	30.12	67	74	60	94	88	91	N. W.	S.	3	5	O.	C.			0.00
Thursday, 3,	30.16	62	66	57	100	92	96	S.	S. E.	4	10	G.	C.			0.00
Friday, 4,	30.09	72	84	60	87	88	88	W.	S. W.	9	12	C.	C.			0.00
Saturday, 5,	29.93	74	82	65	93	100	96	S. W.	E.	8	5	O.	R.			0.66
Week,	30.06		72	58			92									1.38

* O. = Cloudy; C. = Clear; F. = Fair; G. = Fog; H. = Hazy; S. = Smoky; R. = Rain; T. = Threatening; N. = Snow.

Weekly Bulletin

OF THE

STATE BOARD OF HEALTH

OF

MASSACHUSETTS

FOR THE

Week ending Saturday, Sept. 12, 1903.

An official publication of the State Board of Health of Massachusetts, published weekly at the office of the Board, State House, Boston, Mass.

VOL. XXI. No. 37.

Entered at the post-office at Boston as second-class matter.

This publication contains the returns of deaths made each week to the State Board of Health from cities and towns in Massachusetts having over 10,000 inhabitants in each.

It also contains the reports of cases of infectious diseases returned by the boards of health of cities and towns.

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SAMUEL W. ABBOTT, M.D., *Secretary.*

MORTALITY OF MASSACHUSETTS

For the Week ending Sept. 12, 1903.

Deaths reported to the State Board of Health in 39 Cities and Greater Towns.

The number of deaths *reported* each week does not exactly correspond with the number which *occurred* during that week, but the discrepancy is a slight one in most cases. The mortality report is published weekly, and contains the returns from such cities and towns having a population of more than 10,000 inhabitants as have sent to the office of the State Board of Health the death returns of the previous week.

We shall esteem it a great favor if all reporting towns will send us their returns weekly, as heretofore, upon postal cards provided for the purpose. A supply of these cards will be sent to any town clerk or health officer who has charge of such returns and is willing to comply with this request.

CITIES AND TOWNS.	*Population. Estimated for 1903.	Reported Deaths in Each.	Deaths under Five Years.	Deaths from: Principal Infectious Diseases.	Acute Lung Diseases.	Phthisis.	Diphtheria and Croup.	Diarrhœal Diseases.	Typhoid Fever.
Boston,	603,163	197	71	63	12	26	4	28	4
Worcester,	132,044	38	26	13	2	1	..	11	..
Fall River,	115,549	50	21	18	1	2	..	13	2
Lowell,	101,959	48	19	13	3	2	2	7	2
Cambridge,	98,639	24	11	9	1	2	..	6	..
Lynn,	72,497	27	11	1	..	..	..	1	..
Lawrence,	69,766	18	10	1	1	1	..	..	..
Springfield,	69,389	23	10	4	1	..	..	3	..
Somerville,	68,110	14	5	6	..	2	..	3	..
New Bedford,	67,198	29	19	16	2	3	..	13	..
Holyoke,	49,286	17	11	10	1	3	..	7	..
Brockton,	44,873	9	1	..	..	..	..	..	..
Haverhill,	42,104	9	1	2	1	1	..	1	..
Newton,	37,794	6	..	..	..	..	..	..	..
Salem,	36,876	12	7	4	..	..	..	4	..
Malden,	36,286	7	3	3	..	2	..	..	..
Chelsea,	35,876	12	3	2	1	2	..	..	..
Fitchburg,	35,069	6	2	..	..	..	..	..	..
Taunton,	33,656	17	5	5	..	..	..	3	2
Everett,	28,620	7	5	1	..	1	..	..	..
North Adams,	27,862	9	1	3	..	1	..	..	1
Gloucester,	26,121	..	..	..	..	..	..	..	..
Quincy,	26,042	6	4	2	..	..	..	2	..
Waltham,	25,198	6	3	2	..	1	..	1	..
Brookline,	22,608	..	..	..	..	..	..	..	..
Pittsfield,	22,589	5	..	1	..	..	..	1	..
Chicopee,	21,031	5	2	3	..	2	..	1	..
Medford,	20,962	1	1	..	..	..	..	..	..
Northampton,	19,883	5	1	2	..	2	..	..	..
Beverly,	15,302	6	3	4	..	..	..	3	..
Clinton,	15,161	6	2	..	..	..	..	..	..
Leominster,	14,806	..	..	..	..	..	..	..	..
Newburyport,	14,478	..	..	..	..	..	..	..	..
Woburn,	14,300	10	..	2	..	..	..	2	..
Hyde Park,	14,175	..	..	..	..	..	..	..	..
Adams,	13,745	5	..	3	..	2	..	1	..
Attleborough,	13,677	3	1	2	..	1	..	1	..
Marlborough,	13,609	4	1	..	..	..	..	..	..
Melrose,	13,600	3	1	..	..	..	..	..	..
Westfield,	13,418	7	3	..	2	..	..	..	..
Milford,	13,129	..	..	..	..	..	..	..	..
Revere,	12,722	3	..	1	..	1	..	..	..
Framingham,	12,534	3	..	..	..	..	..	..	..
Peabody,	12,179	..	..	..	..	..	..	..	..
Gardner,	11,928	..	..	..	..	..	..	..	..
Weymouth,	11,344	4	0	1	..	..	..	1	..
Southbridge,	11,268	..	..	..	..	..	..	..	..
Watertown,	11,077	8	1	..	1	..	..	..	..
Plymouth,	10,730	..	..	..	..	..	..	..	..

RECAPITULATION.

	Population.	Deaths.	Deaths under Five.	Infectious Diseases.	Acute Lung Diseases.	Phthisis.	Diphtheria and Croup.	Diarrhœal Diseases.	Typhoid Fever.
Total of reporting towns,	2,102,810	669	265	197	29	58	6	113	11

Note.—*The populations of the Massachusetts cities were estimated upon the rate of growth from 1895 to 1900, since the State had an intermediate census in 1895. The populations of Gloucester, Marlborough and Newburyport were allowed to stand as in 1900, they having suffered a slight decrease during the five-year period.

Deaths from Prevalent Diseases in 39 Cities and Larger Towns of Massachusetts.

One hundred and ninety-seven deaths were reported from the principal infectious diseases: scarlet fever, 3; cerebro-spinal meningitis, 3; diphtheria and croup, 6; whooping-cough, 3; typhoid fever, 11; diarrhœal diseases, 113.

No deaths were reported from malarial fever, small-pox, influenza, puerperal fever, erysipelas or measles.

There were 58 deaths from consumption, acute lung diseases, 29, still-births, 40.

From scarlet fever: Fall River, Cambridge and North Adams, 1 each. From cerebro-spinal meningitis: Worcester, Somerville and Malden, 1 each. From whooping-cough: Boston, Springfield and Beverly, 1 each. From diphtheria and croup: Boston, 4; Lowell, 2.

Deaths under five years of age numbered 265, as compared with 234 for the preceding week.

Deaths from the principal infectious diseases numbered 197, as compared with 196 for the preceding week.

The death rates for the week were: Boston, 16.98; Worcester, 14.96; Fall River, 22.50; Lowell, 24.48; Cambridge, 12.65; Lynn, 19.36; Lawrence, 13.41; Springfield, 17.23; Somerville, 10.69; New Bedford, 22.42; Holyoke, 17.93; Brockton, 10.43; Haverhill, 11.11; Newton, 8.25; Salem, 16.92; Malden, 10.03; Chelsea, 17.40; Fitchburg, 8.90; Taunton, 26.26; Everett, 12.72; No. Adams, 16.79; Gloucester, ——; Quincy, 11.98; Waltham, 12.38; Brookline, ——; Pittsfield, 11.51; Chicopee, 12.36; Medford, 2.48; Northampton, 13.06; Beverly, 20.39; Clinton, 10.29; Leominster, ——; Newburyport, ——; Woburn, 36.36; Hyde Park, ——; Adams, 18.92; Attleborough, 11.40; Marlborough, 15.29; Melrose, 11.47; Westfield, 26.16; Milford, ——; Revere, 12.28; Framingham, 12.48; Peabody, ——; Gardner, ——; Weymouth, 18.34; Southbridge, ——; Watertown, 37.48; Plymouth, ——.

The total death rate for the week was 16.54, as compared with 15.52 and 15.41 for the previous two weeks.

Cases of Infectious Diseases reported to the State Board of Health during the Week ending Sept. 12, 1903.

(Under the Provisions of section 52 of chapter 75, of the Revised Laws of Massachusetts.)

Scarlet fever,	66	Typhoid fever,	83
Diphtheria and croup,	88	Measles,	12
Small-pox,	2		

(SIGNED) **S. W. ABBOTT, M.D.,**
Secretary of the State Board of Health.

The Meteorological Record for the Week, in Boston, was as follows:

DATE.	BAROM-ETER.	THER-MOMETER.			RELATIVE HUMIDITY.			DIRECTION OF WIND.		VELOCITY OF WIND.			STATE OF WEATHER.*			RAIN-FALL.	
Week ending Saturday, Sept. 12, 1903.	MEAN.	MEAN.	MAXIMUM.	MINIMUM.	8 A.M.	8 P.M.	MEAN.	8 A.M.	8 P.M.	8 A.M.	8 P.M.		8 A.M.	8 P.M.		DURATION.	AMOUNT IN INCHES.
Sunday, 6,	30.03	62	66	58	63	63	63	N.	N. W.	14	3		C.	C.			0.00
Monday, 7,	30.19	60	67	52	69	63	66	N. W.	N. W.	7	9		O.	C.			0.00
Tuesday, 8,	30.37	56	63	48	65	61	63	N.	S.	7	8		C.	C.			0.00
Wednesday, 9,	30.36	60	71	50	65	69	67	W.	S. W.	6	15		F.	O.			0.00
Thursday, 10,	30.14	68	76	60	79	85	82	S. W.	S. W.	10	12		O.	O.			0.00
Friday, 11,	30.08	74	83	64	82	55	68	W.	N. W.	8	7		C.	C.			0.00
Saturday, 12,	30.28	66	74	58	67	67	67	N. W.	S. W.	5	8		C.	C.			0.00
Week,	30.21		71	56			68										0.00

* O. = Cloudy; C. = Clear; F. = Fair; G. = Fog; H. = Hazy; S. = Smoky; R. = Rain; T. = Threatening; N. = Snow.

INSPECTION OF FOOD AND DRUGS.

The following summary presents the results of the examinations of Food and Drugs by the State Board of Health in the month of August, 1903 : —

ARTICLES EXAMINED.	Number found to be of good quality.	Number adulterated or varying from the legal standard.	TOTAL.	ARTICLES EXAMINED.	Number found to be of good quality.	Number adulterated or varying from the legal standard.	TOTAL.
Milk, . . .	446	86	532	Canned Goods, .	..	..	..
Butter, . . .	6	..	6	Honey, . . .	6	4	10
Cheese, . . .	..	1	1	Tea, . . .	4	..	4
Lard, . . .	3	..	3	Coffee, . . .	9	..	9
Olive Oil, . . .	..	..	..	Cocoa, . . .	1	..	1
Vinegar, . . .	6	10	16	Confectionery, .	3	..	3
Spices, . . .	152	11	163	Oleomargarine, .	2	..	2
Cream of Tartar, .	35	..	35	Lemon Extract, .	2	2	4
Molasses, . . .	9	..	9	Vanilla Extract, .	1	3	4
Syrups, . . .	1	..	1	Miscellaneous, .	10	6	16
Maple Sugar, . .	..	..	..	Drugs, . . .	68	32	100
Maple Syrup, . .	4	..	4				
				Totals, . .	768	155	923

Percentage of adulteration, 16.8. The actual ratio of adulteration is very much less than this, since it is only suspicious articles of food to which the attention of the Board is directed. Certain staple products, such as sugar, flour, and the various other cereal products, are very rarely adulterated and require but little inspection. The work of the Board is therefore mainly devoted to the inspection of such articles as it has found, by several years of experience, to be especially liable to adulteration.

The ratio of samples of milk found to be below the standard was 16.1 per cent., while the percentage articles of food was 12.7 per cent.

Seven complaints were entered in the courts during the month for violation of the laws relative to the inspection of Food and Drugs.

The samples of drugs found to be adulterated were Æther, Alcohol, Aqua Ammonia, Aqua Ammonia Fortier, Aqua Destillata, Cera Alba, Chloroformum, Glycerinum, Oleum Limonis, Oleum Olivæ, Phenacetine, Spiritus Ætheris Nitrosi, Syrupus and Tinctura Iodi.

Cities and towns from which samples of food were collected were Boston, Cambridge, Brookline, Norfolk, Walpole, Canton, Attleborough, Milford, Northampton, Gardner, Worcester, Westborough, Andover, Fitchburg, Revere, Fall River, Hyde Park, Somerville, Lowell, Newburyport, Salem, Beverly, Salisbury Beach, Malden, Everett, Chelsea, Winchester, Woburn, Haverhill, Lawrence, Medford, Gloucester, Springfield, Amherst, Quincy, Greenfield, Newton, Watertown, Onset, Provincetown, Brockton, Whitman and Abington.

RECORD OF PROSECUTIONS IN AUGUST, 1903.

No.	Date of Trial.	Name of Defendant.	Place.	Character of Articles Sold.	Result of Trial.
1	August 4,	Philip Davison,	Boston,	Cream Cheese,	Conviction.
2	August 4,	Philip Davison,	Boston,	Cream Cheese,	Conviction.
3	August 7,	Charles E. Sloane,	Chelsea,	Milk,	Conviction.
4	August 19,	Elizabeth Beauregard,	Lowell,	Milk,	Conviction.
5	August 19,	Edward C. Wright,	N. Chelmsford,	Milk,	Conviction.
6	August 19,	Edward C. Wright,	N. Chelmsford,	Milk (Colored),	Conviction.
7	August 24,	Frank C. Wheeler,	Gardner,	Milk,	Conviction.

The total solids in samples of milk, upon which the foregoing cases were entered, were 11.40, 10.72, 8.40 and 12.00. No. 7 contained Boric Acid. Total amount of fines, $185.00.

Commonwealth of Massachusetts.—State Board of Health.

Publication of Results of Analyses of Certain Articles of Food, required by Chapter 272, of the Acts of 1902.

For the Month of August, 1903.

Number of Sample.	Date of Collection.	City or Town where Purchased.	Character of Sample.	Brand or Name of Manufacturer, Wholesaler or Producer.	Results of Analyses.
3148 K	August 1.	Boston.	Honey.	Wild Rose California Honey, San Diego Honey Co., San Francisco, Cal.	Admixture of glucose and cane sugar.
3522 K	August 15.	Woburn.	Honey.	Choice Strained Honey, Warranted Strictly Pure, Ayer Preserving Co., Ayer, Mass.	Admixture of cane sugar.
48148	August 3.	Somerville.	Lime Juice.	Plymouth Rock Brand, Jamaica Fruit Co., Boston, Mass.	3.44 % citric acid, preserved with sulphurous acid, 50 % added water. Formula is erroneous and incomplete.
48236	August 10.	Beverly.	Lime Juice.	M. O'Keeffe, Boston, Mass.	3 06 % citric acid. Preserved with salicylic acid, 56 % added water. Formula incomplete and erroneous.
48334	August 20.	Woburn.	Lime Juice.	T. W. Stowers, 367 Main St., Woburn, Mass.	2.86 % citric acid, 58 % added water.
257	August 21.	Quincy.	Russet Cider.	Copeland Farm Cider Mills, Milton, Mass.	Preserved with salicylic acid. No formula.
9515 L	August 20.	Wareham.	Ginger Ale.	Hiram Wheaton & Son, New Bedford, Mass.	Preserved with salicylic acid. No formula.
3202 K	August 3.	Cambridge.	Lemon Extract.	Harold & Co., Cambridge.	1.9 % lemon oil. No formula.
3710 K	August 25.	Revere.	Lemon Extract.	"Pure Concentrated." No address.	1 % lemon oil. No formula.
3200 K	August 3.	Cambridge.	Vanilla Extract.	Harold & Co., Cambridgeport.	Erroneous formula.

Weekly Bulletin

OF THE

STATE BOARD OF HEALTH

OF

MASSACHUSETTS

FOR THE

Week ending Saturday, Sept. 19, 1903.

An official publication of the State Board of Health of Massachusetts, published weekly at the office of the Board, State House, Boston, Mass.

VOL. XXI. No. 38.

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This publication contains the returns of deaths made each week to the State Board of Health from cities and towns in Massachusetts having over 10,000 inhabitants in each.

It also contains the reports of cases of infectious diseases returned by the boards of health of cities and towns.

Once in each month the work done under the Food and Drug Acts is also reported in this bulletin.

STATE BOARD OF HEALTH.

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SAMUEL W. ABBOTT, M.D., *Secretary.*

MORTALITY OF MASSACHUSETTS

For the Week ending Sept. 19, 1903.

Deaths reported to the State Board of Health in 38 Cities and Greater Towns.

The number of deaths *reported* each week does not exactly correspond with the number which *occurred* during that week, but the discrepancy is a slight one in most cases. The mortality report is published weekly, and contains the returns from such cities and towns having a population of more than 10,000 inhabitants as have sent to the office of the State Board of Health the death returns of the previous week.

We shall esteem it a great favor if all reporting towns will send us their returns weekly, as heretofore, upon postal cards provided for the purpose. A supply of these cards will be sent to any town clerk or health officer who has charge of such returns and is willing to comply with this request.

CITIES AND TOWNS.	*Population. Estimated for 1903.	Reported Deaths in Each.	Deaths under Five Years.	Deaths from: Principal Infectious Diseases.	Acute Lung Diseases.	Phthisis.	Diphtheria and Croup.	Diarrhœal Diseases.	Typhoid Fever.
Boston,	603,163	215	76	66	20	21	3	35	5
Worcester,	132,044	41	19	14	2	1	..	10	3
Fall River,	115,549	44	22	19	2	5	1	12	1
Lowell,	101,959	39	21	9	3	..	..	7	2
Cambridge,	98,639	23	9	11	1	3	..	7	1
Lynn,	72,497	22	6	2	..	..	1	1	..
Lawrence,	69,766	18	13	11	..	2	..	8	1
Springfield,	69,389	8	..	2	1	1	..	..	1
Somerville,	68,110	24	10	10	2	3	2	3	2
New Bedford,	67,198	28	17	12	2	1	2	7	1
Holyoke,	49,286	..	..	..	..	..	..	..	..
Brockton,	44,873	5	2	1	..	1	..	..	..
Haverhill,	42,104	10	2	..	..	..	..	..	..
Newton,	37,794	4	3	..	..	..	..	..	..
Salem,	36,876	13	2	2	..	..	..	2	..
Malden,	36,286	8	5	2	1	1	..	1	..
Chelsea,	35,876	15	6	5	..	2	..	..	2
Fitchburg,	35,069	8	2	2	..	2	..	..	..
Taunton,	33,656	11	2	4	..	..	..	2	1
Everett,	28,620	5	3	1	..	1	..	..	..
North Adams,	27,862	9	4	3	..	..	..	3	..
Gloucester,	26,121	..	..	..	..	..	..	..	..
Quincy,	26,042	8	4	2	..	1	..	1	..
Waltham,	25,198	4	1	2	..	1	..	1	..
Brookline,	22,608	5	..	1	..	1	..	..	..
Pittsfield,	22,589	5	..	..	1	..	..	..	..
Chicopee,	21,031	5	1	1	..	1	..	..	..
Medford,	20,962	2	2	..	..	..	..	..	..
Northampton,	19,883	6	1	1	..	..	..	..	1
Beverly,	15,302	5	1	1	..	..	1	..	..
Clinton,	15,161	7	2	3	1	..	..	2	..
Leominster,	14,806	..	..	..	..	..	..	..	..
Newburyport,	14,478	6	2	1	..	..	..	1	..
Woburn,	14,300	..	..	..	..	..	..	..	..
Hyde Park,	14,175	..	..	..	..	..	..	..	..
Adams,	13,745	4	..	1	1	1	..	..	..
Attleborough,	13,677	..	..	..	..	..	..	..	..
Marlborough,	13,609	6	3	1	..	..	..	..	..
Melrose,	13,600	1	..	1	..	1	..	..	..
Westfield,	13,418	3	..	..	1	..	..	..	..
Milford,	13,129	..	..	..	..	..	..	..	..
Revere,	12,722	7	3	1	..	1	..	..	..
Framingham,	12,534	..	..	..	..	..	..	..	..
Peabody,	12,179	..	..	..	..	..	..	..	..
Gardner,	11,928	2	1	2	..	1	..	1	..
Weymouth,	11,344	7	2	4	2	2	..	2	..
Southbridge,	11,268	..	..	..	..	..	..	..	..
Watertown,	11,077	3	1	1	..	..	..	1	..
Plymouth,	10,730	..	..	..	..	..	..	..	..

RECAPITULATION.

	Population.	Deaths.	Deaths under Five.	Infectious Diseases.	Acute Lung Diseases.	Phthisis.	Diphtheria and Croup.	Diarrhœal Diseases.	Typhoid Fever.
Total of reporting towns,	2,062,027	636	248	199	40	54	10	107	21

Note.—*The populations of the Massachusetts cities were estimated upon the rate of growth from 1895 to 1900, since the State had an intermediate census in 1895. The populations of Gloucester, Marlborough and Newburyport were allowed to stand as in 1900, they having suffered a slight decrease during the five-year period.

Deaths from Prevalent Diseases in 38 Cities and Larger Towns of Massachusetts.

One hundred and ninety-nine deaths were reported from the principal infectious diseases: scarlet fever, 1; cerebro-spinal meningitis, 2; diphtheria and croup, 10; whooping-cough, 2; typhoid fever, 21; diarrhœal diseases, 107.

No deaths were reported from malarial fever, small-pox, influenza, puerperal fever, measles or erysipelas.

There were 54 deaths from consumption, acute lung diseases, 40, still-births, 38.

From scarlet fever: New Bedford, 1. From cerebro-spinal meningitis: Boston, 1; Marlborough, 1. From whooping-cough: Boston, 1; Chelsea, 1. From erysipelas: Taunton, 1; Clinton, 1. From diphtheria and croup: Boston, 3; New Bedford and Somerville, 2 each; Fall River, Lynn and Beverly, 1 each.

Deaths under five years of age numbered 248, as compared with 265 for the preceding week.

Deaths from the principal infectious diseases numbered 199, as compared with 197 for the preceding week.

The death rates for the week were: Boston, 18.53; Worcester, 16.14; Fall River, 19.80; Lowell, 19.89; Cambridge, 12.12; Lynn, 15.77; Lawrence, 13.41; Springfield, 6.00; Somerville, 18.32; New Bedford, 21.66; Holyoke, ——; Brockton, 5.79; Haverhill, 12.35; Newton, 5.50; Salem, 18.33; Malden, 11.46; Chelsea, 21.75; Fitchburg, 11.86; Taunton, 17.00; Everett, 9.09; No. Adams, 15.79; Gloucester, ——; Quincy, 15.98; Waltham, 8.25; Brookline, 11.50; Pittsfield, 11.50; Chicopee, 12.36; Medford, 4.96; Northampton, 15.68; Beverly, 17.00; Clinton, 23.01; Leominster, ——; Newburyport, 21.54; Woburn, ——; Hyde Park, ——; Adams, 15.13; Attleborough, ——; Marlborough, 22.93; Melrose, 3.82; Westfield, 11.64; Milford, ——; Revere, 28.66; Framingham, ——; Peabody, ——; Gardner, 8.74; Weymouth, 32.09; Southbridge, ——; Watertown, 14.05; Plymouth, ——.

The total death rate for the week was 16.03, as compared with 16.54 and 15.52 for the previous two weeks.

Cases of Infectious Diseases reported to the State Board of Health during the Week ending Sept. 19, 1903.

(Under the Provisions of section 52 of chapter 75, of the Revised Laws of Massachusetts.)

Scarlet fever,	55	Typhoid fever,	81
Diphtheria and croup,	103	Measles,	17
Small-pox,	4		

(SIGNED) S. W. ABBOTT, M.D.,
Secretary of the State Board of Health.

The Meteorological Record for the Week, in Boston, was as follows:

DATE.	BAROM-ETER.	THER-MOMETER.			RELATIVE HUMIDITY.			DIRECTION OF WIND.		VELOCITY OF WIND.			STATE OF WEATHER.*			RAIN-FALL.	
Week ending Saturday, Sept. 19, 1903.	MEAN.	MEAN.	MAXIMUM.	MINIMUM.	8 A.M.	8 P.M.	MEAN.	8 A.M.	8 P.M.	8 A.M.	8 P.M.		8 A.M.	8 P.M.		DURATION.	AMOUNT IN INCHES.
Sunday, 13,	30.14	74	86	61	66	84	75	S. W.	S. W.	8	14		C.	C.			0.00
Monday, 14,	30.10	81	91	71	71	69	70	W.	S. W.	8	8		C.	C.			0.00
Tuesday, 15,	30.16	79	88	70	74	82	78	S. W.	S. W.	7	14		C.	C.			0.00
Wednesday, 16,	30.08	74	80	67	80	80	80	S. W.	S. E.	6	24		F.	O.			T
Thursday, 17,	29.84	76	81	70	84	93	88	S. W.	S. W.	9	15		O.	O.			0.63
Friday, 18,	30.08	63	70	56	58	46	52	W.	N.	14	8		O.	C.			T
Saturday, 19,	30.42	56	62	50	57	66	62	N.	S. E.	7	7		C.	C.			0.00
Week,	30.12		80	64			72										0.63

* O. = Cloudy; C. = Clear; F. = Fair; G. = Fog; H. = Hazy; S. = Smoky; R. = Rain; T. = Threatening; N. = Snow.

Weekly Bulletin

OF THE

STATE BOARD OF HEALTH

OF

MASSACHUSETTS

FOR THE

Week ending Saturday, Sept. 26, 1903.

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Once in each month the work done under the Food and Drug Acts is also reported in this bulletin.

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MORTALITY OF MASSACHUSETTS

For the Week ending Sept. 26, 1903.

Deaths reported to the State Board of Health in 37 Cities and Greater Towns.

The number of deaths *reported* each week does not exactly correspond with the number which *occurred* during that week, but the discrepancy is a slight one in most cases. The mortality report is published weekly, and contains the returns from such cities and towns having a population of more than 10,000 inhabitants as have sent to the office of the State Board of Health the death returns of the previous week.

We shall esteem it a great favor if all reporting towns will send us their returns weekly, as heretofore, upon postal cards provided for the purpose. A supply of these cards will be sent to any town clerk or health officer who has charge of such returns and is willing to comply with this request.

CITIES AND TOWNS.	*Population. Estimated for 1903.	Reported Deaths in Each.	Deaths under Five Years.	Deaths from: Principal Infectious Diseases.	Acute Lung Diseases.	Phthisis.	Diphtheria and Croup.	Diarrhœal Diseases.	Typhoid Fever.
Boston,	603,163	197	77	66	9	27	2	27	4
Worcester,	132,044	29	16	7	1	1	..	3	1
Fall River,	115,549	31	17	15	5	3	..	11	1
Lowell,	101,959	24	11	6	2	2	..	4	..
Cambridge,	98,639	37	15	15	3	5	3	6	..
Lynn,	72,497	15	4	2	1	..	1	..	..
Lawrence,	69,766	22	12	11	1	4	1	4	..
Springfield,	69,389	9	3	2	..	..	..	2	..
Somerville,	68,110	13	5	6	1	3	..	3	..
New Bedford,	67,198	24	15	7	3	..	..	6	..
Holyoke,	49,286	..	..	..	..	..	..	..	..
Brockton,	44,873	13	3	2	..	2	..	..	..
Haverhill,	42,104	5	1	1	..	..	..	1	..
Newton,	37,794	10	3	..	..	..	..	..	..
Salem,	36,876	16	10	..	..	..	..	..	..
Malden,	36,286	9	3	4	..	2	1	..	1
Chelsea,	35,876	9	4	1	2	1	..	..	..
Fitchburg,	35,069	5	3	2	..	1	..	..	..
Taunton,	33,656	12	4	2	2	..	..	2	..
Everett,	28,620	5	2	2	..	2	..	..	..
North Adams,	27,862	6	4	2	..	..	1	..	..
Gloucester,	26,121	..	..	..	..	..	..	..	..
Quincy,	26,042	8	3	2	..	..	..	1	..
Waltham,	25,198	6	1	2	..	1	..	..	1
Brookline,	22,608	..	..	..	..	..	..	..	..
Pittsfield,	22,589	2	..	..	..	..	..	..	..
Chicopee,	21,031	3	1	..	..	..	..	..	..
Medford,	20,962	3	1	1	1	..	..	1	..
Northampton,	19,883	4	2	..	1	..	..	..	..
Beverly,	15,302	4	..	1	..	..	..	1	..
Clinton,	15,161	4	3	3	..	..	..	3	..
Leominster,	14,806	..	..	..	..	..	..	..	..
Newburyport,	14,478	..	..	..	..	..	..	..	..
Woburn,	14,300	..	..	..	..	..	..	..	..
Hyde Park,	14,175	6	5	3	..	..	..	3	..
Adams,	13,745	6	..	3	..	..	..	3	..
Attleborough,	13,677	..	..	..	..	..	..	..	..
Marlborough,	13,609	..	..	..	..	..	..	..	..
Melrose,	13,600	1	..	..	..	..	..	..	..
Westfield,	13,418	3	1	..	1	..	..	..	..
Milford,	13,129	..	..	..	..	..	..	..	..
Revere,	12,722	6	3	2	..	1	..	1	..
Framingham,	12,534	5	1	1	1	..	..	1	..
Peabody,	12,179	..	..	..	..	..	..	..	..
Gardner,	11,928	4	4	3	1	..	..	2	..
Weymouth,	11,344	1	1	1	..	..	..	1	..
Southbridge,	11,268	..	..	..	..	..	..	..	..
Watertown,	11,077	4	3	1	..	..	..	1	..
Plymouth,	10,730	..	..	..	..	..	..	..	..

RECAPITULATION.

	Population.	Deaths.	Deaths under Five.	Infectious Diseases.	Acute Lung Diseases.	Phthisis.	Diphtheria and Croup.	Diarrhœal Diseases.	Typhoid Fever.
Total of reporting towns,	2,038,041	561	241	176	35	55	9	87	8

Note.—*The populations of the Massachusetts cities were estimated upon the rate of growth from 1895 to 1900, since the State had an intermediate census in 1895. The populations of Gloucester, Marlborough and Newburyport were allowed to stand as in 1900, they having suffered a slight decrease during the five-year period.

Deaths from Prevalent Diseases in 37 Cities and Larger Towns of Massachusetts.

One hundred and seventy-six deaths were reported from the principal infectious diseases: measles, 1; scarlet fever, 2; cerebro-spinal meningitis, 8; diphtheria and croup, 9; whooping-cough, 3; typhoid fever, 8; diarrhœal diseases, 87; erysipelas, 2; puerperal fever, 1.

No deaths were reported from malarial fever, small-pox or influenza.

There were 55 deaths from consumption, acute lung diseases, 35, still-births, 44.

From measles: Lawrence, 1. From scarlet fever: New Bedford, 1; North Adams, 1. From cerebro-spinal meningitis: Boston, 3; Worcester, 2; Cambridge, Lynn and Gardner, 1 each. From erysipelas: Boston, 2. From diphtheria and croup: Boston, 2; Cambridge, 3; Lynn, Lawrence, Malden and North Adams, 1 each.

Deaths under five years of age numbered 241, as compared with 248 for the preceding week.

Deaths from the principal infectious diseases numbered 176, as compared with 199 for the preceding week.

The death rates for the week were: Boston, 16.98; Worcester, 11.42; Fall River, 13.95; Lowell, 12.24; Cambridge, 19.50; Lynn, 10.76; Lawrence, ——; Springfield, 6.74; Somerville, 9.92; New Bedford, 18.57; Holyoke, ——; Brockton, 15.06; Haverhill, 6.17; Newton, 13.75; Salem, 22.56; Malden, 12.90; Chelsea, 13.05; Fitchburg, 7.41; Taunton, 18.54; Everett, 9.09; No. Adams, 11.20; Gloucester, ——; Quincy, 15.98; Waltham, 12.38; Brookline, ——; Pittsfield, 4.60; Chicopee, 7.42; Medford, 7.44; Northampton, 10.45; Beverly, 13.60; Clinton, 13.72; Leominster, ——; Newburyport, ——; Woburn, ——; Hyde Park, 22.00; Adams, 22.70; Attleborough, ——; Marlborough, ——; Melrose, 3.82; Westfield, 11.64; Milford, ——; Revere, 24.56; Framingham, 20.80; Peabody, ——; Gardner, 17.47; Weymouth, 4.58; Southbridge, ——; Watertown, 18.74; Plymouth, ——.

The total death rate for the week was 14.31, as compared with 16.03 and 16.54 for the previous two weeks.

Cases of Infectious Diseases reported to the State Board of Health during the Week ending Sept. 26, 1903.

(Under the Provisions of section 52 of chapter 75, of the Revised Laws of Massachusetts.)

Scarlet fever,	52	Typhoid fever,	97
Diphtheria and croup,	110	Measles,	19
Small-pox,	4		

(SIGNED) **S. W. ABBOTT, M.D.,**
Secretary of the State Board of Health.

The Meteorological Record for the Week, in Boston, was as follows:

DATE.	BAROM-ETER.	THER-MOMETER.			RELATIVE HUMIDITY.			DIRECTION OF WIND.		VELOCITY OF WIND.			STATE OF WEATHER.*			RAIN-FALL.	
Week ending Saturday, Sept. 26, 1903.	MEAN.	MEAN.	MAXIMUM.	MINIMUM.	8 A.M.	8 P.M.		MEAN.	8 A.M.	8 P.M.	8 A.M.	8 P.M.		8 A.M.	8 P.M.		DURATION.	AMOUNT IN INCHES.
Sunday, . . 20,	30.38	56	60	51	73	80		76	N. E.	N. E.	9	9		O.	C.			0.00
Monday, . . 21,	30.15	56	62	51	84	66		75	N.	W.	12	6		O.	C.			0.00
Tuesday, . . 22,	30.13	66	78	55	68	42		55	N. W.	N. W.	10	4		C.	C.			0.00
Wednesday, . 23,	30.02	67	79	55	59	66		62	W.	S.	2	9		C.	C.			0.00
Thursday, . . 24,	29.76	58	67	49	84	44		64	W.	N. W.	8	14		O.	C.			0.01
Friday, . . 25,	30.04	55	65	45	58	59		58	N. W.	W.	9	8		C.	C.			0.00
Saturday, . . 26,	30.18	62	74	49	60	79		70	N. W.	S. W.	3	12		C.	C.			0.00
Week, . . .	30.09		69	51				66										0.01

* O. = Cloudy; C. = Clear; F. = Fair; G. = Fog; H. = Hazy; S. = Smoky; R. = Rain; T. = Threatening; N. = Snow.

Weekly Bulletin

OF THE

STATE BOARD OF HEALTH

OF

MASSACHUSETTS

FOR THE

Week ending Saturday, Oct. 3, 1903.

An official publication of the State Board of Health of Massachusetts, published weekly at the office of the Board, State House, Boston, Mass.

VOL. XXI. No. 40.

Entered at the post-office at Boston as second-class matter.

This publication contains the returns of deaths made each week to the State Board of Health from cities and towns in Massachusetts having over 10,000 inhabitants in each.

It also contains the reports of cases of infectious diseases returned by the boards of health of cities and towns.

Once in each month the work done under the Food and Drug Acts is also reported in this bulletin.

STATE BOARD OF HEALTH.

HENRY P. WALCOTT, M.D., Cambridge, *Chairman.*
JULIAN A. MEAD, M.D., Watertown.
HIRAM F. MILLS, C.E., Lawrence.
GERARD C. TOBEY, Esq., Wareham.
JAMES W. HULL, Pittsfield.
CHARLES H. PORTER, Quincy.
JOHN W. BARTOL, M.D., Boston.

SAMUEL W. ABBOTT, M.D., *Secretary.*

MORTALITY OF MASSACHUSETTS

For the Week ending Oct. 3, 1903.

Deaths reported to the State Board of Health in 37 Cities and Greater Towns.

The number of deaths *reported* each week does not exactly correspond with the number which *occurred* during that week, but the discrepancy is a slight one in most cases. The mortality report is published weekly, and contains the returns from such cities and towns having a population of more than 10,000 inhabitants as have sent to the office of the State Board of Health the death returns of the previous week.

We shall esteem it a great favor if all reporting towns will send us their returns weekly, as heretofore, upon postal cards provided for the purpose. A supply of these cards will be sent to any town clerk or health officer who has charge of such returns and is willing to comply with this request.

CITIES AND TOWNS.	*Population. Estimated for 1903.	Reported Deaths in Each.	Deaths under Five Years.	Deaths from					
				Principal Infectious Diseases.	Acute Lung Diseases.	Phthisis.	Diphtheria and Croup.	Diarrhœal Diseases.	Typhoid Fever.
Boston,	603,163	173	61	49	17	17	3	23	5
Worcester,	132,044	43	14	14	2	3	2	6	1
Fall River,	115,549	37	17	13	3	3	..	9	1
Lowell,	101,959	32	15	5	1	..	..	3	1
Cambridge,	98,639	28	10	8	..	4	..	4	..
Lynn,	72,497	18	3	1	..	..	..	1	..
Lawrence,	69,766	19	6	9	1	2	1	3	2
Springfield,	69,389	16	7	8	..	4	1	3	..
Somerville,	68,110	10	3	2	2	1	..	..	..
New Bedford,	67,198	20	7	9	..	2	1	5	1
Holyoke,	49,286	18	12	5	..	..	..	5	..
Brockton,	44,873	8	3	4	..	2	..	..	..
Haverhill,	42,104	6	..	..	1	..	..	..	..
Newton,	37,794	8	2	1	..	..	..	1	..
Salem,	36,876	19	7	3	2	2	..	..	1
Malden,	36,286	4	3	1	..	..	..	..	..
Chelsea,	35,876	9	2	..	1	..	..	..	..
Fitchburg,	35,069	..	..	..	..	..	..	..	..
Taunton,	33,656	7	3	4	..	..	..	3	..
Everett,	28,620	7	2	..	..	..	..	..	..
North Adams,	27,862	8	3	6	..	..	3	2	..
Gloucester,	26,121	..	..	..	..	..	..	..	..
Quincy,	26,042	4	1	..	..	..	..	..	..
Waltham,	25,198	3	2	..	..	..	..	..	..
Brookline,	22,608	4	..	1	..	..	..	..	1
Pittsfield,	22,589	5	1	2	..	1	..	..	1
Chicopee,	21,031	5	3	..	..	..	..	..	..
Medford,	20,962	3	..	1	..	1	..	..	..
Northampton,	19,883	..	..	..	..	..	..	..	..
Beverly,	15,302	6	2	1	..	..	..	1	..
Clinton,	15,161	6	4	..	..	..	..	..	..
Leominster,	14,806	..	..	..	..	..	..	..	..
Newburyport,	14,478	1	..	1	..	..	1	..	..
Woburn,	14,300	..	..	..	..	..	..	..	..
Hyde Park,	14,175	..	..	..	..	..	..	..	..
Adams,	13,745	3	1	..	..	..	..	..	..
Attleborough,	13,677	..	..	..	..	..	..	..	..
Marlborough,	13,609	4	2	2	..	1	..	1	..
Melrose,	13,600	4	1	..	..	..	..	..	..
Westfield,	13,418	3	2	..	1	..	..	..	..
Milford,	13,129	..	..	..	..	..	..	..	..
Revere,	12,722	2	1	..	..	..	..	..	..
Framingham,	12,534	4	1	1	..	..	..	1	..
Peabody,	12,179	..	..	..	..	..	..	..	..
Gardner,	11,928	..	..	..	..	..	..	..	..
Weymouth,	11,344	5	0	..	..	..	..	..	..
Southbridge,	11,268	..	..	..	..	..	..	..	..
Watertown,	11,077	2	..	1	..	1	..	..	..
Plymouth,	10,730	..	..	..	..	..	..	..	..

RECAPITULATION.

	Population.	Deaths.	Deaths under Five.	Infectious Diseases.	Acute Lung Diseases.	Phthisis.	Diphtheria and Croup.	Diarrhœal Diseases.	Typhoid Fever.
Total of reporting towns,	2,056,967	554	201	152	31	44	12	71	14

Note.—*The populations of the Massachusetts cities were estimated upon the rate of growth from 1895 to 1900, since the State had an intermediate census in 1895. The populations of Gloucester, Marlborough and Newburyport were allowed to stand as in 1900, they having suffered a slight decrease during the five-year period.

Deaths from Prevalent Diseases in 37 Cities and Larger Towns of Massachusetts.

One hundred and fifty-two deaths were reported from the principal infectious diseases: scarlet fever, 4; cerebro-spinal meningitis, 8; diphtheria and croup, 12; whooping-cough, 2; typhoid fever, 14; diarrhœal diseases, 71; puerperal fever, 1.

No deaths were reported from erysipelas, measles, malarial fever, small-pox or influenza.

There were 44 deaths from consumption, acute lung diseases, 31, still-births, 36.

From scarlet fever: Worcester, Lowell, Lawrence and North Adams, 1 each. From cerebro-spinal meningitis: Brockton, 2; Worcester and Somerville, 1 each. From diphtheria and croup: Boston, 3; North Adams, 3; Worcester, 2; Lawrence, New Bedford, Springfield and Newburyport, 1 each. From whooping-cough: Boston and Malden, 1 each.

Deaths under five years of age numbered 201, as compared with 241 for the preceding week.

Deaths from the principal infectious diseases numbered 152, as compared with 176 for the preceding week.

The death rates for the week were: Boston, 14.91; Worcester, 16.93; Fall River, 16.65; Lowell, 16.32; Cambridge, 14.76; Lynn, 12.91; Lawrence, 14.16; Springfield, 11.98; Somerville, 7.63; New Bedford, 15.48; Holyoke, 18.99; Brockton, 9.27; Haverhill, 7.41; Newton, 11.00; Salem, 26.79; Malden, 5.73; Chelsea, 13.05; Fitchburg, ——; Taunton, 10.81; Everett, 12.72; No. Adams, 14.93; Gloucester, ——; Quincy, 7.99; Waltham, 6.19; Brookline, 9.20; Pittsfield, 11.60; Chicopee, 12.26; Medford, 7.44; Northampton, ——; Beverly, 20.39; Clinton, 20.58; Leominster, ——; Newburyport, 3.59; Woburn, ——; Hyde Park, ——; Adams, 11.25; Attleborough, ——; Marlborough, 15.28; Melrose, 15.28; Westfield, 11.64; Milford, ——; Revere, 8.19; Framingham, 16.64; Peabody, ——; Gardner, ——; Weymouth, 22.92; Southbridge, ——; Watertown, 9.37; Plymouth, ——.

The total death rate for the week was 14.00, as compared with 14.31 and 16.03 for the previous two weeks.

Cases of Infectious Diseases reported to the State Board of Health during the Week ending Oct. 3, 1903.

(Under the Provisions of section 52 of chapter 75, of the Revised Laws of Massachusetts.)

Scarlet fever,	77	Typhoid fever,	81
Diphtheria and croup,	132	Measles,	22
Small-pox,	2		

(SIGNED) **S. W. ABBOTT, M.D.,**
Secretary of the State Board of Health.

The Meteorological Record for the Week, in Boston, was as follows:

DATE.	BAROM-ETER.	THER-MOMETER.			RELATIVE HUMIDITY.			DIRECTION OF WIND.		VELOCITY OF WIND.			STATE OF WEATHER.*			RAIN-FALL.	
Week ending Saturday, Oct. 3, 1903.	MEAN.	MEAN.	MAXIMUM.	MINIMUM.	8 A.M.	8 P.M.	MEAN.	8 A.M.	8 P.M.	8 A.M.	8 P.M.		8 A.M.	8 P.M.		DURATION.	AMOUNT IN INCHES.
Sunday, Sept. 27,	29.95	65	73	57	89	86	88	S.	S. W.	9	12		F.	O.			T
Monday, 28,	30.03	56	63	49	73	62	68	W.	N. W.	14	9		C.	C.			0.98
Tuesday, 29,	30.26	48	53	43	63	52	58	N. W.	W.	8	6		O.	C.			0.00
Wednesday, 30,	30.33	55	68	42	70	52	61	W.	S. W.	11	17		C.	C.			0.00
Thursday, Oct. 1,	30.12	65	76	54	78	71	74	S. W.	S. W.	10	10		O.	O.			0.00
Friday, 2,	30.16	64	72	55	87	79	83	W.	N. E.	9	10		O.	C.			0.13
Saturday, 3,	30.37	56	60	51	82	76	79	N.	E.	5	5		C.	C.			0.00
Week,	30.17		66	50			73										1.11

* O. = Cloudy; C. = Clear; F. = Fair; G. = Fog; H. = Hazy; S. = Smoky; R. = Rain; T. = Threatening; N. = Snow.

Weekly Bulletin

OF THE

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OF

MASSACHUSETTS

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MORTALITY OF MASSACHUSETTS

For the Week ending Oct. 10, 1903.

Deaths reported to the State Board of Health in 40 Cities and Greater Towns.

The number of deaths *reported* each week does not exactly correspond with the number which *occurred* during that week, but the discrepancy is a slight one in most cases. The mortality report is published weekly, and contains the returns from such cities and towns having a population of more than 10,000 inhabitants as have sent to the office of the State Board of Health the death returns of the previous week.

We shall esteem it a great favor if all reporting towns will send us their returns weekly, as heretofore, upon postal cards provided for the purpose. A supply of these cards will be sent to any town clerk or health officer who has charge of such returns and is willing to comply with this request.

CITIES AND TOWNS.	*Population. Estimated for 1903.	Reported Deaths in Each.	Deaths under Five Years.	Deaths from					
				Principal Infectious Diseases.	Acute Lung Diseases.	Phthisis.	Diphtheria and Croup.	Diarrhœal Diseases.	Typhoid Fever.
Boston,	603,163	188	67	53	19	24	7	18	2
Worcester,	132,044	33	9	3	3	..	..	3	..
Fall River,	115,549	40	10	20	3	9	..	8	2
Lowell,	101,959	33	11	7	5	2	..	5	..
Cambridge,	98,639	34	13	10	2	4	..	4	..
Lynn,	72,497	22	11	4	..	3	1	..	..
Lawrence,	69,766	23	10	5	5	2	1	2	..
Springfield,	69,389	11	1	3	..	2	1	..	..
Somerville,	68,110	20	6	5	..	2	..	..	1
New Bedford,	67,198	29	12	14	3	..	1	7	2
Holyoke,	49,286	11	4	2	1	1	..	1	..
Brockton,	44,873	6	3	..	..	..	..	..	..
Haverhill,	42,104	2	1	..	1	..	..	..	..
Newton,	37,794	7	1	..	..	..	..	..	..
Salem,	36,876	17	9	5	..	1	..	4	..
Malden,	36,286	12	2	2	1	2	..	..	..
Chelsea,	35,876	11	5	4	..	2	..	2	..
Fitchburg,	35,069	3	1	..	..	..	..	..	..
Taunton,	33,656	15	5	7	2	4	..	3	..
Everett,	28,620	5	4	1	..	..	1	..	..
North Adams,	27,862	6	..	1	..	..	..	..	1
Gloucester,	26,121	..	..	..	..	..	..	..	..
Quincy,	26,042	10	3	3	..	2	..	1	..
Waltham,	25,198	4	1	3	..	3	..	..	..
Brookline,	22,608	..	..	..	..	..	..	..	..
Pittsfield,	22,589	4	1	2	..	1	..	..	..
Chicopee,	21,031	4	3	1	..	..	..	..	..
Medford,	20,962	4	1	1	1	..	..	1	..
Northampton,	19,883	5	2	..	..	..	..	..	..
Beverly,	15,302	4	1	..	..	..	..	..	..
Clinton,	15,161	6	2	..	..	..	..	..	..
Leominster,	14,806	..	..	..	..	..	..	..	..
Newburyport,	14,478	6	3	2	..	1	..	1	..
Woburn,	14,300	10	..	4	..	2	..	2	..
Hyde Park,	14,175	6	2	2	..	1	..	..	..
Adams,	13,745	1	..	..	..	..	..	..	..
Attleborough,	13,677	..	..	..	..	..	..	..	..
Marlborough,	13,609	6	2	1	..	..	..	1	..
Melrose,	13,600	2	2	..	1	..	..	..	..
Westfield,	13,418	5	3	..	..	..	..	..	..
Milford,	13,129	..	..	..	..	..	..	..	..
Revere,	12,722	2	1	..	..	..	..	..	..
Framingham,	12,534	..	..	..	..	..	..	..	..
Peabody,	12,179	..	..	..	..	..	..	..	..
Gardner,	11,928	1	..	..	..	..	..	..	..
Weymouth,	11,344	7	2	..	..	..	..	..	..
Southbridge,	11,268	..	..	..	..	..	..	..	..
Watertown,	11,077	4	1	2	..	2	..	..	..
Plymouth,	10,730	..	..	..	..	..	..	..	..

RECAPITULATION.

	Population.	Deaths.	Deaths under Five.	Infectious Diseases.	Acute Lung Diseases.	Phthisis.	Diphtheria and Croup.	Diarrhœal Diseases.	Typhoid Fever.
Total of reporting towns,	2,117,180	619	215	167	47	70	12	63	8

Note.—*The populations of the Massachusetts cities were estimated upon the rate of growth from 1895 to 1900, since the State had an intermediate census in 1895. The populations of Gloucester, Marlborough and Newburyport were allowed to stand as in 1900, they having suffered a slight decrease during the five-year period.

Deaths from Prevalent Diseases in 40 Cities and Larger Towns of Massachusetts.

One hundred and sixty-seven deaths were reported from the principal infectious diseases: scarlet fever, 4; cerebro-spinal meningitis, 3; diphtheria and croup, 12; whooping-cough, 7; typhoid fever, 8; diarrhœal diseases, 63.

No deaths were reported from malarial fever, influenza, small-pox, puerperal fever, measles or erysipelas.

There were 70 deaths from consumption, acute lung diseases, 47, still-births, 45.

From scarlet fever: Boston, 1; New Bedford, 3. From cerebro-spinal meningitis: Somerville, 2; Pittsfield, 1. From whooping-cough: Cambridge, 2; Boston, Fall River, New Bedford, Chicopee and Hyde Park, 1 each. From diphtheria and croup: Boston, 7; Lynn, Lawrence, New Bedford, Springfield and Everett, 1 each.

Deaths under five years of age numbered 215, as compared with 201 for the preceding week.

Deaths from the principal infectious diseases numbered 167, as compared with 152 for the preceding week.

The death rates for the week were: Boston, 16.20; Worcester, 13.09; Fall River, 18.00; Lowell, 16.83; Cambridge, 17.92; Lynn, 15.78; Lawrence, 17.14; Springfield, 8.24; Somerville, 15.27; New Bedford, 22.44; Holyoke, 11.60; Brockton, 6.95; Haverhill, 2.47; Newton, 9.62; Salem, 23.97; Malden, 17.19; Chelsea, 15.95; Fitchburg, 4.45; Taunton, 23.17; Everett, 9.09; No. Adams, 11.20; Gloucester, ——; Quincy, 19.97; Waltham, 8.25; Brookline, ——; Pittsfield, 9.20; Chicopee, 9.89; Medford, 9.92; Northampton, 13.06; Beverly, 13.60; Clinton, 20.58; Leominster, ——; Newburyport, 23.54; Woburn, 36.36; Hyde Park, 22.00; Adams, 3.78; Attleborough, ——; Marlborough, 22.94; Melrose, 7.65; Westfield, 19.40; Milford, ——; Revere, 8.19; Framingham, ——; Peabody, ——; Gardner, 4.37; Weymouth, 32.09; Southbridge, ——; Watertown, 18.74; Plymouth, ——.

The total death rate for the week was 15.20, as compared with 14.00 and 14.31 for the previous two weeks.

Cases of Infectious Diseases reported to the State Board of Health during the Week ending Oct. 10, 1903.

(Under the Provisions of section 52 of chapter 75, of the Revised Laws of Massachusetts.)

Scarlet fever, ...	72	Typhoid fever, ...	72
Diphtheria and croup, ...	206	Measles, ...	31
Small-pox, ...	1		

(SIGNED) S. W. ABBOTT, M.D.,
Secretary of the State Board of Health.

The Meteorological Record for the Week, in Boston, was as follows:

DATE.	BAROM-ETER.	THER-MOMETER.			RELATIVE HUMIDITY.			DIRECTION OF WIND.		VELOCITY OF WIND.		STATE OF WEATHER.*			RAIN-FALL.	
Week ending Saturday, Oct. 10, 1903.	MEAN.	MEAN.	MAXIMUM.	MINIMUM.	8 A.M.	8 P.M.	MEAN.	8 A.M.	8 P.M.	8 A.M.	8 P.M.	8 A.M.	8 P.M.		DURATION.	AMOUNT IN INCHES.
Sunday, . . 4,	30.30	58	70	46	80	81	80	S. E.	S.	5	12	C.	F.			0.00
Monday, . . 5,	30.12	68	74	61	84	91	88	S. W.	S. W.	0	7	O.	O.			0.20
Tuesday, . . 6,	30.24	62	66	58	78	88	83	N.	S. E.	12	7	O.	C.			0.00
Wednesday, . 7,	30.27	58	60	56	83	96	90	E.	E.	8	12	O.	R.			T
Thursday, . . 8,	29.99	60	65	56	97	89	93	S. E.	S. E.	10	16	R.	O.			0.23
Friday, . . 9,	29.92	56	58	55	88	85	86	E.	E.	12	21	O.	O.			0.10
Saturday, . . 10,	30.08	52	54	50	84	87	86	N. E.	N. E.	27	25	R.	O.			0.37
Week, . . .	30.13		64	55			87									0.90

* O. = Cloudy; C. = Clear; F. = Fair; G. = Fog; H. = Hazy; S. = Smoky; R. = Rain; T. = Threatening; N. = Snow.

INSPECTION OF FOOD AND DRUGS.

The following summary presents the results of the examinations of Food and Drugs by the State Board of Health in the month of September, 1903: —

ARTICLES EXAMINED.	Number found to be of good quality.	Number adulterated or varying from the legal standard.	TOTAL.	ARTICLES EXAMINED.	Number found to be of good quality.	Number adulterated or varying from the legal standard.	TOTAL.
Milk, . . .	407	85	492	Canned Goods, .	1	..	1
Butter, . . .	11	..	11	Honey, . . .	..	1	1
Cheese, . . .	2	..	2	Tea, . . .	2	..	2
Lard, . . .	..	..	..	Coffee, . . .	6	1	7
Olive Oil, . . .	..	..	..	Cocoa, . . .	..	..	..
Vinegar, . . .	15	9	24	Confectionery, .	3	..	3
Spices, . . .	109	8	117	Condensed Milk, .	5	1	6
Cream of Tartar, .	17	2	19	Lemon Extract, .	3	1	4
Molasses, . . .	26	..	26	Vanilla Extract, .	1	1	2
Syrups, . . .	2	..	2	Miscellaneous, .	17	19	36
Maple Sugar, . .	..	..	..	Drugs, . . .	40	28	68
Maple Syrup, . .	5	..	5				
				Totals, . .	672	156	828

Percentage of adulteration, 18.8. The actual ratio of adulteration is very much less than this, since it is only suspicious articles of food to which the attention of the Board is directed. Certain staple products, such as sugar, flour, and the various other cereal products, are very rarely adulterated and require but little inspection. The work of the Board is therefore mainly devoted to the inspection of such articles as it has found, by several years of experience, to be especially liable to adulteration.

The ratio of samples of milk found to be below the standard was 17.3 per cent., while the percentage of articles of food was 16.0 per cent.

Under "miscellaneous" are included 27 samples of jelly and jams, adulterated with coloring matter or preservatives, and improperly labeled.

Ten complaints were entered in the courts during the month for violation of the laws relative to the inspection of Food and Drugs.

The samples of drugs found to be adulterated were Aqua Destillata, Capsicum, Cera Alba, Glycerinum, Oleum Limonis, Opii Pulvis, Phenacetine, Pulvis Glycyrrhizae, Comp., Sodii Boras, Sulphur Lotum, Sulphur Præcipitatum and Tinctura Iodi.

Cities and towns from which samples of food were collected were Boston, Somerville, Cambridge, Newburyport, Lowell, Malden, Everett, Chelsea, Medford, Nantucket, Palmer, Brimfield, Dedham, Stoughton, Worcester, Fall River, Taunton, Canton, Wood's Hole, Quincy, Lynn, Springfield, Holyoke, Newton, Salem, Gloucester, Waltham, Chicopee, Beverly, Marlborough, Framingham, Watertown, Plymouth, Natick and Siasconset.

RECORD OF PROSECUTIONS IN SEPTEMBER, 1903.

No.	Date of Trial.	Name of Defendant.	Place.	Character of Articles Sold.	Result of Trial.
1	September 2,	Francis P. Adams,	Boston,	Honey,	Discharged.
2	September 5,	Delmar H. Morse,	Gardner,	Milk,	Conviction.
3	September 16,	James F. Rhodes,	Worcester,	Milk,	Conviction.
4	September 17,	Omer Bernard,	Lowell,	Milk,	Conviction.
5	September 17,	Wm. Ingersoll,	Gloucester,	Milk,	Conviction.
6	September 17,	Wm. Ingersoll,	Gloucester,	Milk (Colored),	Conviction.
7	September 21,	Stillman A. Smith,	Palmer,	Milk,	Conviction.
8	September 22,	William Gray,	Fall River,	Milk,	Conviction.
9	September 22,	James Hoy,	Fall River,	Milk,	Conviction.
10	September 28,	Harry A. Tobey,	Nantucket,	Tincture of Iodine,	Conviction.

The total solids in samples of milk, upon which the foregoing cases were entered, were 12.88, 10.07, 10.80, 10.99, 10.99 10.72, 12.40 and 11.11. Nos. 2 and 8 contained preservatives.

Total amount of fines, $81.00.

Commonwealth of Massachusetts.—State Board of Health.

Publication of Results of Analyses of Certain Articles of Food, required by Chapter 272, of the Acts of 1902.

For the Month of September, 1903.

Number of Sample.	Date of Collection.	City or Town where Purchased.	Character of Sample.	Brand or Name of Manufacturer, Wholesaler or Producer.	Results of Analyses.
48642			Honey.	Orange Blossom Honey, "Guaranteed Strictly Pure." Ayer Preserving Co., Ayer, Mass.	Admixture of commercial glucose.
48514			Wild Raspberry Jam.	F. P. Adams & Co., Boston, Mass.	Preserved with benzoic acid. No formula.
48653			Wild Strawberry Jam.	F. P. Adams & Co., Boston, Mass.	Preserved with salicylic acid. No formula.
48516			Raspberry Jam.	Curtice Brothers, Rochester, N. Y.	Preserved with benzoic acid. No formula.
48515			Raspberry Jam.	Winner Brand.	Preserved with benzoic acid. Not in formula.
48535			Raspberry Jam.	Ideal Preserving Co., Boston, Mass.	Preserved with benzoic acid. Not in formula.
48625			Raspberry Jam.	Ideal Preserving Co., Boston, Mass.	Preserved with benzoic and salicylic acids. Not in formula.
48679			Strawberry Jam.	Ideal Preserving Co , Boston, Mass.	Preserved with benzoic acid. Not in formula.
48569			Strawberry Jam.	Haskell, Adams & Co., Boston, Mass.	Preserved with benzoic acid. Not in formula.
48737			Raspberry Jam.	J. P. Ritter Conserve Co., Philadelphia, Pa.	Preserved with benzoic acid and colored with a coal tar dye. No formula.
48518			Quince Jelly.	Grocers Preserving Co., 73 Commerce St., Boston, Mass.	Chiefly apple stock. No formula.
48739			Pineapple Jelly.	Twitchell Champlin Co., Portland, Me.	Chiefly apple stock. No formula.
48592			Strawberry Preserve.	Chapin's Delight, Herbert Chapin & Co.	Colored with coal tar dye. Not in formula.
48736			Strawberry Flavor Jelly.	Lutz & Schramm Co., Allegheny, Pa.	Colored with coal tar dye. No formula.
48738			Strawberry Preserve, Highland Brand.	The Williams Bros. Co., Detroit.	Colored with coal tar dye. Not in formula.
48670			Raspberry Jelly.	The John Boyle Co., Baltimore.	Colored with coal tar dye. Not in formula.
48676			Pepper.	Chas H. Wigmore, Cambridge.	Excess of pepper shells.
9989 L			Mace.	Hatton Bros. & Johnson, Lynn	Admixture of wild mace.
4102 K			Mustard.	B. Fischer & Co , New York.	Colored with turmeric.
48675			Mustard.	Chas. H. Wigmore, Cambridge.	Colored with turmeric.
3662 K			Grape Juice.	"Columbia", Cobb, Aldrich & Co., Boston.	Contains salicylic acid. No formula.

Weekly Bulletin

OF THE

STATE BOARD OF HEALTH

OF

MASSACHUSETTS

FOR THE

Week ending Saturday, Oct. 17, 1903.

An official publication of the State Board of Health of Massachusetts, published weekly at the office of the Board, State House, Boston, Mass.

VOL. XXI. No. 42.

Entered at the post-office at Boston as second-class matter.

This publication contains the returns of deaths made each week to the State Board of Health from cities and towns in Massachusetts having over 10,000 inhabitants in each.

It also contains the reports of cases of infectious diseases returned by the boards of health of cities and towns.

Once in each month the work done under the Food and Drug Acts is also reported in this bulletin.

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SAMUEL W. ABBOTT, M.D., *Secretary.*

MORTALITY OF MASSACHUSETTS

For the Week ending Oct. 17, 1903.

Deaths reported to the State Board of Health in 39 Cities and Greater Towns.

The number of deaths *reported* each week does not exactly correspond with the number which *occurred* during that week, but the discrepancy is a slight one in most cases. The mortality report is published weekly, and contains the returns from such cities and towns having a population of more than 10,000 inhabitants as have sent to the office of the State Board of Health the death returns of the previous week.

We shall esteem it a great favor if all reporting towns will send us their returns weekly, as heretofore, upon postal cards provided for the purpose. A supply of these cards will be sent to any town clerk or health officer who has charge of such returns and is willing to comply with this request.

CITIES AND TOWNS.	*Population. Estimated for 1903.	Reported Deaths in Each.	Deaths under Five Years.	Deaths from: Principal Infectious Diseases.	Acute Lung Diseases.	Phthisis.	Diphtheria and Croup.	Diarrhœal Diseases.	Typhoid Fever.
Boston,	603,163	180	59	43	19	16	7	12	2
Worcester,	132,044	27	12	4	3	1	..	..	..
Fall River,	115,549	35	15	9	4	3	..	6	..
Lowell,	101,959	28	12	9	3	4	1	2	2
Cambridge,	98,639	25	9	6	1	2	1	3	..
Lynn,	72,497	13	2	2	..	..	..	2	..
Lawrence,	69,766	21	9	9	1	3	1	5	..
Springfield,	69,389	14	4	2	..	2	..	..	..
Somerville,	68,110	..	..	..	..	..	..	..	..
New Bedford,	67,198	16	6	4	3	2	..	..	1
Holyoke,	49,286	14	7	5	2	3	..	2	..
Brockton,	44,873	11	4	1	..	..	..	..	1
Haverhill,	42,104	5	..	1	..	1	..	..	..
Newton,	37,794	10	2	2	..	..	..	1	1
Salem,	36,876	11	3	6	..	2	3	..	1
Malden,	36,286	10	2	1	..	1	..	..	..
Chelsea,	35,876	13	5	..	..	..	..	..	..
Fitchburg,	35,069	7	3	1	..	1	..	..	..
Taunton,	33,656	7	2	1	..	1	..	..	..
Everett,	28,620	4	4	..	..	..	..	..	..
North Adams,	27,862	8	2	2	..	..	1	..	1
Gloucester,	26,121	5	1	2	..	2	..	..	..
Quincy,	26,042	..	..	..	..	..	..	..	..
Waltham,	25,198	7	3	1	3	1	..	..	..
Brookline,	22,608	2	..	..	..	..	..	..	..
Pittsfield,	22,589	5	1	..	..	..	..	..	..
Chicopee,	21,031	4	3	2	..	..	..	1	..
Medford,	20,962	2	1	2	..	..	1	..	..
Northampton,	19,883	7	..	1	..	1	..	..	..
Beverly,	15,302	3	..	..	1	..	..	..	..
Clinton,	15,161	3	1	..	..	..	..	..	..
Leominster,	14,806	..	..	..	..	..	..	..	..
Newburyport,	14,478	7	4	2	1	..	2	..	..
Woburn,	14,300	1	..	..	..	..	..	..	..
Hyde Park,	14,175	..	..	..	..	..	..	..	..
Adams,	13,745	3	2	..	..	..	..	..	..
Attleborough,	13,677	..	..	..	..	..	..	..	..
Marlborough,	13,609	4	1	1	..	..	..	1	..
Melrose,	13,600	2	..	..	..	..	..	..	..
Westfield,	13,418	..	..	..	..	..	..	..	..
Milford,	13,129	..	..	..	..	..	..	..	..
Revere,	12,722	..	..	..	..	..	..	..	..
Framingham,	12,534	5	..	..	1	..	..	..	..
Peabody,	12,179	..	..	..	..	..	..	..	..
Gardner,	11,928	4	..	1	..	..	..	..	..
Weymouth,	11,344	6	..	..	..	..	..	..	..
Southbridge,	11,268	..	..	..	..	..	..	..	..
Watertown,	11,077	2	1	..	..	..	..	..	..
Plymouth,	10,730	..	..	..	..	..	..	..	..

RECAPITULATION.

	Population.	Deaths.	Deaths under Five.	Infectious Diseases.	Acute Lung Diseases.	Phthisis.	Diphtheria and Croup.	Diarrhœal Diseases.	Typhoid Fever.
Total of reporting towns,	2,057,394	531	180	120	42	46	17	35	9

Note.—*The populations of the Massachusetts cities were estimated upon the rate of growth from 1895 to 1900, since the State had an intermediate census in 1895. The populations of Gloucester, Marlborough and Newburyport were allowed to stand as in 1900, they having suffered a slight decrease during the five-year period.

Deaths from Prevalent Diseases in 39 Cities and Larger Towns of Massachusetts.

One hundred and twenty deaths were reported from the principal infectious diseases: scarlet fever, 3; cerebro-spinal meningitis, 2; diphtheria and croup, 17; whooping-cough, 2; typhoid fever, 7; diarrhœal diseases, 38; measles, 1; erysipelas, 3.

No deaths were reported from malarial fever, or influenza.

There were 46 deaths from consumption, acute lung diseases, 42, still-births, 33.

From scarlet fever: Boston, 2; New Bedford, 1. From cerebro-spinal meningitis: Medford and Gardner, 1 each. From diphtheria and croup: Boston, 7; Salem, 3; Newburyport, 2; Lowell, Cambridge, Lawrence, North Adams and Medford, 1 each. From whooping-cough: Boston and Chicopee, 1 each.

Deaths under five years of age numbered 180, as compared with 215 for the preceding week.

Deaths from the principal infectious diseases numbered 120, as compared with 167 for the preceding week.

The death rates for the week were: Boston, 15.51; Worcester, 10.63; Fall River, 15.75; Lowell, 14.28; Cambridge, 13.18; Lynn, 9.32; Lawrence, 15.65; Springfield, 10.50; Somerville, ——; New Bedford, 12.38; Holyoke, 14.77; Brockton, 12.74; Haverhill, 6.17; Salem, 15.50; Chelsea, 18.85; Malden, 14.33; Newton, 13.75; Fitchburg, 10.38; Taunton, 10.81; Gloucester, 9.96; Everett, 7.27; No. Adams, 14.93; Quincy, ——; Waltham, 14.44; Pittsfield, 11.51; Brookline, 4.60; Chicopee, 9.89; Northampton, 18.29; Medford, 4.96; Newburyport, 25.14; Woburn, 3.64; Beverly, 10.20; Clinton, 10.29; Marlborough, 15.29; Melrose, 7.65; Watertown, 9.37; Weymouth, 27.51; Framingham, 20.80; Adams, 11.35; Gardner, 17.48.

The total death rate for the week was 13.42, as compared with 15.20 and 14.00 for the previous two weeks.

Cases of Infectious Diseases reported to the State Board of Health during the Week ending Oct. 17, 1903.

(Under the Provisions of section 52 of chapter 75, of the Revised Laws of Massachusetts.)

Scarlet fever,	76	Typhoid fever,	112
Diphtheria and croup,	212	Measles,	49
Small-pox,	3		

(SIGNED) **S. W. ABBOTT, M.D.,**
Secretary of the State Board of Health.

The Meteorological Record for the Week, in Boston, was as follows:

DATE.	BAROM-ETER.	THER-MOMETER.			RELATIVE HUMIDITY.			DIRECTION OF WIND.		VELOCITY OF WIND.		STATE OF WEATHER.*		RAIN-FALL.	
Week ending Saturday, Oct. 17, 1903.	MEAN.	MEAN.	MAXIMUM.	MINIMUM.	8 A.M.	8 P.M.	MEAN.	8 A.M.	8 P.M.	8 A.M.	8 P.M.	8 A.M.	8 P.M.	DURATION.	AMOUNT IN INCHES.
Sunday, . . 11,	29.97	52	53	50	93	94	94	N. E.	N. E.	17	18	R.	R.		0.37
Monday, . . 12,	29.80	51	53	49	100	94	97	N.	N.	22	22	R.	R.		0.99
Tuesday, . . 13,	29.94	54	57	51	82	71	76	N.	N. E.	13	4	O.	O.		0.10
Wednesday, . 14,	29.90	57	68	46	74	55	64	W.	N.	8	8	C.	C.		0.00
Thursday, . . 15,	30.08	50	56	44	66	66	66	N.	S.	7	9	C.	C.		0.00
Friday, . . 16,	30.07	59	70	48	84	82	83	S.	S.	8	9	O.	O.		0.00
Saturday, . . 17,	29.80	64	69	58	89	97	93	S.	E.	8	18	O.	R.		0.92
Week, . . .	29.94		61	49			82								2.38

* O. = Cloudy; C. = Clear; F. = Fair; G. = Fog; H. = Hazy; S. = Smoky; R. = Rain; T. = Threatening; N. = Snow.

Weekly Bulletin

OF THE

STATE BOARD OF HEALTH

OF

MASSACHUSETTS

FOR THE

Week ending Saturday, Oct. 24, 1903.

An official publication of the State Board of Health of Massachusetts, published weekly at the office of the Board, State House, Boston, Mass.

VOL. XXI. No. 43.

Entered at the post-office at Boston as second-class matter.

This publication contains the returns of deaths made each week to the State Board of Health from cities and towns in Massachusetts having over 10,000 inhabitants in each.

It also contains the reports of cases of infectious diseases returned by the boards of health of cities and towns.

Once in each month the work done under the Food and Drug Acts is also reported in this bulletin.

STATE BOARD OF HEALTH.

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MORTALITY OF MASSACHUSETTS

For the Week ending Oct. 24, 1903.

Deaths reported to the State Board of Health in 39 Cities and Greater Towns.

The number of deaths *reported* each week does not exactly correspond with the number which *occurred* during that week, but the discrepancy is a slight one in most cases. The mortality report is published weekly, and contains the returns from such cities and towns having a population of more than 10,000 inhabitants as have sent to the office of the State Board of Health the death returns of the previous week.

We shall esteem it a great favor if all reporting towns will send us their returns weekly, as heretofore, upon postal cards provided for the purpose. A supply of these cards will be sent to any town clerk or health officer who has charge of such returns and is willing to comply with this request.

CITIES AND TOWNS.	*Population. Estimated for 1903.	Reported Deaths in Each.	Deaths under Five Years.	Deaths from: Principal Infectious Diseases.	Acute Lung Diseases.	Phthisis.	Diphtheria and Croup.	Diarrhœal Diseases.	Typhoid Fever.
Boston,	603,163	190	60	43	13	21	3	11	4
Worcester,	132,044	32	10	3	3	2	..	1	..
Fall River,	115,549	26	14	6	2	3	1	2	..
Lowell,	101,959	32	13	5	..	4	..	1	..
Cambridge,	98,639	25	7	6	1	5	..	..	1
Lynn,	72,497	22	4	1	..	..	1	..	..
Lawrence,	69,766	21	11	7	1	1	..	6	..
Springfield,	69,389	17	6	6	..	6	..	..	..
Somerville,	68,110	11	1	4	2	2	1	..	1
New Bedford,	67,198	25	12	8	1	3	3	..	1
Holyoke,	49,286	14	7	2	..	1	..	1	..
Brockton,	44,873	9	..	2	..	2	..	..	..
Haverhill,	42,104	8	2	2	2	1	1	..	..
Newton,	37,794	12	2	1	2	1	..	..	..
Salem,	36,876	12	3	1	..	..	1	..	..
Malden,	36,286	6	2	2	..	1	1	..	..
Chelsea,	35,876	13	3	..	2	..	..	..	..
Fitchburg,	35,069	8	4	1	..	1	..	..	..
Taunton,	33,656	6	3	1	..	1	..	..	..
Everett,	28,620	2	..	1	..	1	..	..	..
North Adams,	27,862	2	2	1	..	..	..	1	..
Gloucester,	26,121	4	1	1	..	..	1	..	..
Quincy,	26,042	..	..	..	..	..	..	..	..
Waltham,	25,198	3	1	1	..	1	..	..	..
Brookline,	22,608	..	..	..	..	..	..	..	..
Pittsfield,	22,589	8	4	1	..	1	..	..	..
Chicopee,	21,031	1	..	..	..	..	..	..	..
Medford,	20,962	6	3	1	..	1	..	..	..
Northampton,	19,883	4	..	..	..	..	..	..	..
Beverly,	15,302	..	..	..	..	..	..	..	..
Clinton,	15,161	5	..	..	..	..	..	..	..
Leominster,	14,806	..	..	..	..	..	..	..	..
Newburyport,	14,478	1	..	..	..	..	..	..	..
Woburn,	14,300	..	..	..	..	..	..	..	..
Hyde Park,	14,175	7	2	2	..	1	..	..	1
Adams,	13,745	4	..	2	..	..	..	2	..
Attleborough,	13,677	..	..	..	..	..	..	..	..
Marlborough,	13,609	2	..	1	..	1	..	..	..
Melrose,	13,600	4	..	1	..	1	..	..	..
Westfield,	13,418	6	2	1	..	1	..	..	..
Milford,	13,129	..	..	..	..	..	..	..	..
Revere,	12,722	2	2	..	..	..	..	..	..
Framingham,	12,534	..	..	..	..	..	..	..	..
Peabody,	12,179	..	..	..	..	..	..	..	..
Gardner,	11,928	6	3	2	..	..	1	..	..
Weymouth,	11,344	3	..	1	..	1	..	..	..
Southbridge,	11,268	3	..	2	..	2	..	..	..
Watertown,	11,077	3	1	2	1	1	..	..	..
Plymouth,	10,730	..	..	..	..	..	..	..	..

RECAPITULATION.

	Population.	Deaths.	Deaths under Five.	Infectious Diseases.	Acute Lung Diseases.	Phthisis.	Diphtheria and Croup.	Diarrhœal Diseases.	Typhoid Fever.
Total of reporting towns,	2,098,925	565	185	121	30	67	14	25	8

Note.—*The populations of the Massachusetts cities were estimated upon the rate of growth from 1895 to 1900, since the State had an intermediate census in 1895. The populations of Gloucester, Marlborough and Newburyport were allowed to stand as in 1900, they having suffered a slight decrease during the five-year period.

Deaths from Prevalent Diseases in 39 Cities and Larger Towns of Massachusetts.

One hundred and twenty-one deaths were reported from the principal infectious diseases: scarlet fever, 1; cerebro-spinal meningitis, 3; diphtheria and croup, 15; whooping-cough, 2; typhoid fever, 8; diarrhœal diseases, 23; measles 1.

No deaths were reported from puerperal fever, erysipelas, malarial fever, small-pox or influenza.

There were 67 deaths from consumption, acute lung diseases, 30, still-births, 45.

From scarlet fever: New Bedford, 1. From cerebro-spinal meningitis: Boston, 2; Watertown, 1. From diphtheria and croup: Boston, and New Bedford, 3 each; Fall River, Lynn, Somerville, Haverhill, Salem, Malden, Gloucester, Northampton and Gardner, 1 each. From whooping-cough: Boston and Gardner, 1 each. From measles: Boston, 1.

Deaths under five years of age numbered 185, as compared with 181 for the preceding week.

Deaths from the principal infectious diseases numbered 121, as compared with 120 for the preceding week.

The death rates for the week were: Boston, 16.38; Worcester, 12.60; Fall River, 11.70; Lowell, 16.32; Cambridge, 13.18; Lynn, 15.78; Lawrence, 15.65; Springfield, 12.74; Somerville, 8.40; New Bedford, 19.35; Holyoke, 14.77; Brockton, 10.43; Haverhill, 9.88; Newton, 16.51; Salem, 16.92; Malden, 8.60; Chelsea, 18.85; Fitchburg, 11.86; Taunton, 9.27; Everett, 3.63; No. Adams, 3.73; Gloucester, 7.96; Waltham, 6.19; Pittsfield, 18.42; Chicopee, 2.47; Medford, 14.89; Northampton, 10.46; Clinton, 17.15; Newburyport, 3.59; Hyde Park, 25.68; Adams, 15.14; Marlborough, 7.64; Melrose, 15.29; Westfield, 23.25; Revere, 8.18; Gardner, 26.15; Weymouth, 13.76; Southbridge, 13.84; Watertown, 14.08.

The total death rate for the week was 14.00, as compared with 13.42 and 15.20 for the previous two weeks.

Cases of Infectious Diseases reported to the State Board of Health during the Week ending Oct. 24, 1903.

(Under the Provisions of section 52 of chapter 75, of the Revised Laws of Massachusetts.)

Scarlet fever,	66	Typhoid fever,	93
Diphtheria and croup,	226	Measles,	54
Small-pox,	2		

(SIGNED) **S. W. ABBOTT, M.D.,**
Secretary of the State Board of Health.

The Meteorological Record for the Week, in Boston, was as follows:

DATE.	BAROM-ETER.	THER-MOMETER.			RELATIVE HUMIDITY.			DIRECTION OF WIND.		VELOCITY OF WIND.		STATE OF WEATHER.*		RAIN-FALL.	
Week ending Saturday, Oct. 24, 1903.	MEAN.	MEAN.	MAXIMUM.	MINIMUM.	8 A.M.	8 P.M.	MEAN.	8 A.M.	8 P.M.	8 A.M.	8 P.M.	8 A.M.	8 P.M.	DURATION.	AMOUNT IN INCHES.
Sunday, 18,	29.63	55	65	45	82	55	68	W.	N. W.	12	13	O.	C.		0.34
Monday, 19,	30.06	47	55	39	67	68	68	S.	S. W.	6	9	F.	C.		T
Tuesday, 20,	29.86	61	70	52	74	65	70	S. W.	S. W.	24	5	C.	C.		0.00
Wednesday, 21,	30.13	51	58	44	58	46	52	N. W.	N.	6	8	F.	C.		0.00
Thursday, 22,	30.26	50	61	38	67	75	71	N. W.	S.	2	15	C.	C.		0.00
Friday, 23,	29.94	60	70	50	84	81	82	S.	N. W.	12	11	O.	O.		0.20
Saturday, 24,	30.01	43	50	36	65	54	60	N.	N. W.	12	10	O.	C.		0.00
Week,	29.98		61	43			67								0.54

* O. = Cloudy; C. = Clear; F. = Fair; G. = Fog; H. = Hazy; S. = Smoky; R. = Rain; T. = Threatening; N. = Snow.

Weekly Bulletin

OF THE

STATE BOARD OF HEALTH

OF

MASSACHUSETTS

FOR THE

Week ending Saturday, Oct. 31, 1903.

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MORTALITY OF MASSACHUSETTS

For the Week ending Oct. 31, 1903.

Deaths reported to the State Board of Health in 38 Cities and Greater Towns.

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CITIES AND TOWNS.	*Population. Estimated for 1903.	Reported Deaths in Each.	Deaths under Five Years.	Deaths from: Principal Infectious Diseases.	Acute Lung Diseases.	Phthisis.	Diphtheria and Croup.	Diarrhœal Diseases.	Typhoid Fever.
Boston,	603,163	159	49	32	20	14	3	8	4
Worcester,	132,044	27	12	9	2	2	..	3	1
Fall River,	115,549	35	13	8	4	3	2	3	..
Lowell,	101,959	23	9	5	4	2	2	..	..
Cambridge,	98,639	17	6	5	2	3	2	..	..
Lynn,	72,497	21	5	5	1	1	2	..	2
Lawrence,	69,766	20	10	9	1	4	1	4	..
Springfield,	69,389	19	4	2	2	2	..	..	..
Somerville,	68,110	23	7	5	4	4	..	..	..
New Bedford,	67,198	29	10	11	5	4	1	4	2
Holyoke,	49,286	10	7	3	2	..	1	2	..
Brockton,	44,873	7	4	1	..	..	1	..	..
Haverhill,	42,104	20	4	1	1	1	..	..	..
Newton,	37,794	7	2	2	1	1	1	..	..
Salem,	36,876	13	3	2	2	1	1	..	..
Malden,	36,286	7	2	..	..	..	..	..	..
Chelsea,	35,876	13	1	1	1	..	1	..	..
Fitchburg,	35,069	..	..	..	..	..	..	..	..
Taunton,	33,656	14	2	6	3	1	1	3	1
Everett,	28,620	10	3	..	..	..	..	..	..
North Adams,	27,862	5	..	..	2	..	..	..	..
Gloucester,	26,121	..	..	..	..	..	..	..	..
Quincy,	26,042	..	..	..	..	..	..	..	..
Waltham,	25,198	8	..	..	2	..	..	..	..
Brookline,	22,608	..	..	..	..	..	..	..	..
Pittsfield,	22,589	6	..	2	..	2	..	..	..
Chicopee,	21,031	7	3	2	1	1	..	..	1
Medford,	20,962	4	..	1	2	1	..	..	..
Northampton,	19,883	5	1	..	1	..	..	..	..
Beverly,	15,302	5	..	..	..	..	..	..	..
Clinton,	15,161	3	1	1	..	..	..	..	..
Leominster,	14,806	..	..	..	..	..	..	..	..
Newburyport,	14,478	2	1	1	..	..	1	..	..
Woburn,	14,300	4	..	2	..	..	..	..	..
Hyde Park,	14,175	..	..	..	..	..	..	..	..
Adams,	13,745	7	5	3	..	..	..	2	..
Attleborough,	13,677	5	2	1	..	1	..	..	..
Marlborough,	13,609	3	0	..	..	..	..	..	..
Melrose,	13,600	2	..	1	..	1	..	..	..
Westfield,	13,418	7	2	..	..	..	..	..	..
Milford,	13,129	..	..	..	..	..	..	..	..
Revere,	12,722	..	..	..	..	..	..	..	..
Framingham,	12,534	3	1	..	..	..	..	..	..
Peabody,	12,179	..	..	..	..	..	..	..	..
Gardner,	11,928	3	2	1	..	..	1	..	..
Weymouth,	11,344	1	0	..	..	..	..	..	..
Southbridge,	11,268	..	..	..	..	..	..	..	..
Watertown,	11,077	1	..	1	..	..	..	..	1
Plymouth,	10,730	..	..	..	..	..	..	..	..

RECAPITULATION.

	Population.	Deaths.	Deaths under Five.	Infectious Diseases.	Acute Lung Diseases.	Phthisis.	Diphtheria and Croup.	Diarrhœal Diseases.	Typhoid Fever.
Total of reporting towns,	2,055,383	555	171	123	63	49	21	29	12

Note.—*The populations of the Massachusetts cities were estimated upon the rate of growth from 1895 to 1900, since the State had an intermediate census in 1895. The populations of Gloucester, Marlborough and Newburyport were allowed to stand as in 1900, they having suffered a slight decrease during the five-year period.

Deaths from Prevalent Diseases in 38 Cities and Larger Towns of Massachusetts.

One hundred and twenty-three deaths were reported from the principal infectious diseases: scarlet fever, 3; cerebro spinal meningitis, 4; diphtheria and croup, 21; whooping-cough, 3; typhoid fever, 12; diarrhœal diseases, 29; erysipelas, 1; puerperal fever, 1.

No deaths were reported from malarial fever, small-pox, measles or influenza.

There were 49 deaths from consumption, acute lung diseases, 63, still-births, 37.

From scarlet fever: Boston, Worcester and Woburn, 1 each. From cerebro-spinal meningitis: Boston, 1; Worcester, 2; Somerville, 1. From diphtheria and croup: Boston, 3; Fall River, Lowell, Cambridge and Lynn, 2 each; Lawrence, New Bedford, Holyoke, Brockton, Salem, Chelsea, Newton, Taunton, Newburyport and Gardner, 1 each. From whooping-cough: Lowell, Woburn and Adams, 1 each. From erysipelas: Clinton, 1.

Deaths under five years of age numbered 171, as compared with 185 for the preceding week.

Deaths from the principal infectious diseases numbered 123, as compared with 121 for the preceding week.

The death rates for the week were: Boston, 13.71; Worcester, 10.63; Fall River, 15.75; Lowell, 11.73; Cambridge, 8.96; Lynn, 15.06; Lawrence, 14.90; Springfield, 14.23; Somerville, 17.56; New Bedford, 22.44; Holyoke, 10.55; Brockton, 8.11; Haverhill, 24.70; Newton, 9.62; Salem, 18.33; Malden, 10.03; Chelsea, 18.85; Fitchburg, ——; Taunton, 21.63; Everett, 18.18; No. Adams, 9.33; Gloucester, ——; Quincy, ——; Waltham, 16.50; Brookline, ——; Pittsfield, 13.81; Chicopee, 17.31; Medford, 9.92; Northampton, 13.06; Beverly, 16.99; Clinton, 10.29; Leominster, ——; Newburyport, 7.18; Woburn, 14.54; Hyde Park, ——; Adams, 26.19; Attleborough, 19.00; Marlborough, 11.47; Melrose, 7.65; Westfield, 27.16; Milford, ——; Revere, ——; Framingham, 12.48; Peabody, ——; Gardner, 13.12; Weymouth, 4.58; Southbridge, ——; Watertown, 4.68; Plymouth, ——.

The total death rate for the week was 14.04, as compared with 14.00 and 13.42 for the previous two weeks.

Cases of Infectious Diseases reported to the State Board of Health during the Week ending Oct. 31, 1903.

(Under the Provisions of section 52 of chapter 75, of the Revised Laws of Massachusetts.)

Scarlet fever,	86	Typhoid fever,	95
Diphtheria and croup,	206	Measles,	106
Small-pox,	1		

(SIGNED) S. W. ABBOTT, M.D.,
Secretary of the State Board of Health.

The Meteorological Record for the Week, in Boston, was as follows:

DATE.	BAROM-ETER.	THER-MOMETER.			RELATIVE HUMIDITY.			DIRECTION OF WIND.		VELOCITY OF WIND.		STATE OF WEATHER.*		RAIN-FALL.	
Week ending Saturday, Oct. 31, 1903.	MEAN.	MEAN.	MAXIMUM.	MINIMUM.	8 A.M.	8 P.M.	MEAN.	8 A.M.	8 P.M.	8 A.M.	8 P.M.	8 A.M.	8 P.M.	DURATION.	AMOUNT IN INCHES.
Sunday, 25,	29.83	38	44	31	64	58	61	N. W.	N. W.	7	2	O.	C.		0.00
Monday, 26,	29.76	41	46	36	62	52	57	W.	W.	20	13	O.	C.		0.00
Tuesday, 27,	30.06	38	42	33	54	46	50	W.	W.	16	12	C.	C.		0.00
Wednesday, 28,	30.08	38	46	31	54	46	50	N. W.	N. W.	9	9	C.	C.		0.00
Thursday, 29,	30.04	46	61	31	64	54	59	W.	S. W.	9	11	C.	C.		0.00
Friday, 30,	30.07	58	69	48	69	56	62	W.	W.	12	9	C.	C.		0.00
Saturday, 31,	30.14	62	71	52	59	36	48	W.	S. W.	12	8	C.	C.		0.00
Week,	30.00		54	37			55								0.00

* O. = Cloudy; C. = Clear; F. = Fair; G. = Fog; H. = Hazy; S. = Smoky; R. = Rain; T. = Threatening; N. = Snow.

Weekly Bulletin

OF THE

STATE BOARD OF HEALTH

OF

MASSACHUSETTS

FOR THE

Week ending Saturday, Nov. 7, 1903.

An official publication of the State Board of Health of Massachusetts, published weekly at the office of the Board, State House, Boston, Mass.

VOL. XXI. No. 45.

Entered at the post-office at Boston as second-class matter.

This publication contains the returns of deaths made each week to the State Board of Health from cities and towns in Massachusetts having over 10,000 inhabitants in each.

It also contains the reports of cases of infectious diseases returned by the boards of health of cities and towns.

Once in each month the work done under the Food and Drug Acts is also reported in this bulletin.

STATE BOARD OF HEALTH.

HENRY P. WALCOTT, M.D., Cambridge, *Chairman.*
JULIAN A. MEAD, M.D., Watertown.
HIRAM F. MILLS, C.E., Lawrence.
GERARD C. TOBEY, Esq., Wareham.
JAMES W. HULL, Pittsfield.
CHARLES H. PORTER, Quincy.
JOHN W. BARTOL, M.D., Boston.

SAMUEL W. ABBOTT, M.D., *Secretary.*

MORTALITY OF MASSACHUSETTS

For the Week ending Nov. 7, 1903.

Deaths reported to the State Board of Health in 35 Cities and Greater Towns.

The number of deaths *reported* each week does not exactly correspond with the number which *occurred* during that week, but the discrepancy is a slight one in most cases. The mortality report is published weekly, and contains the returns from such cities and towns having a population of more than 10,000 inhabitants as have sent to the office of the State Board of Health the death returns of the previous week.

We shall esteem it a great favor if all reporting towns will send us their returns weekly, as heretofore, upon postal cards provided for the purpose. A supply of these cards will be sent to any town clerk or health officer who has charge of such returns and is willing to comply with this request.

CITIES AND TOWNS.	* Population. Estimated for 1903.	Reported Deaths in Each.	Deaths under Five Years.	Deaths from					
				Principal Infectious Diseases.	Acute Lung Diseases.	Phthisis.	Diphtheria and Croup.	Diarrhœal Diseases.	Typhoid Fever.
Boston,	603,163	195	53	51	25	20	7	12	5
Worcester,	132,044	25	7	3	4	..	..	..	1
Fall River,	115,549	25	13	7	5	2	1	3	1
Lowell,	101,959	32	8	7	3	5	..	1	1
Cambridge,	98,639	24	4	8	4	8	..	..	..
Lynn,	72,497	22	2	4	1	..	1	..	3
Lawrence,	69,766	21	11	8	2	3	1	3	1
Springfield,	69,389	19	9	5	4	3	..	..	2
Somerville,	68,110	9	1	..	..	..	..	..	..
New Bedford,	67,198	27	9	7	5	3	1	1	1
Holyoke,	49,286	..	..	..	..	..	..	..	..
Brockton,	44,873	7	2	4	..	2	1	..	..
Haverhill,	42,104	10	1	1	1	1	..	..	..
Newton,	37,794	7	..	..	2	..	..	..	..
Salem,	36,876	12	3	..	..	..	..	..	..
Malden,	36,286	11	..	3	1	3	..	..	..
Chelsea,	35,876	8	2	..	..	..	..	..	..
Fitchburg,	35,069	11	5	2	1	1	..	..	..
Taunton,	33,656	8	1	3	..	2	1	..	..
Everett,	28,620	8	..	2	..	1	..	..	1
North Adams,	27,862	5	..	3	..	1	..	1	..
Gloucester,	26,121	..	..	..	..	..	..	..	..
Quincy,	26,042	4	..	..	1	..	..	..	..
Waltham,	25,198	4	1	..	..	..	..	..	..
Brookline,	22,608	..	..	..	..	..	..	..	..
Pittsfield,	22,589	1	..	..	..	..	..	..	..
Chicopee,	21,031	4	2	..	..	..	..	..	..
Medford,	20,962	7	..	3	1	2	..	..	1
Northampton,	19,883	7	1	1	1	..	1	..	..
Beverly,	15,302	4	..	1	..	1	..	..	..
Clinton,	15,161	6	1	3	1	1	..	1	1
Leominster,	14,806	..	..	..	..	..	..	..	..
Newburyport,	14,478	1	0	..	..	..	..	..	..
Woburn,	14,300	..	..	..	..	..	..	..	..
Hyde Park,	14,175	6	1	2	1	1	..	..	1
Adams,	13,745	2	0	..	..	..	..	..	..
Attleborough,	13,677	..	..	..	..	..	..	..	..
Marlborough,	13,609	..	..	..	..	..	..	..	..
Melrose,	13,600	..	..	..	..	..	..	..	..
Westfield,	13,418	5	1	3	1	1	1	..	1
Milford,	13,129	..	..	..	..	..	..	..	..
Revere,	12,722	1	..	..	..	..	..	..	..
Framingham,	12,534	..	..	..	..	..	..	..	..
Peabody,	12,179	..	..	..	..	..	..	..	..
Gardner,	11,928	..	..	..	..	..	..	..	..
Weymouth,	11,344	0	0	..	..	..	..	..	..
Southbridge,	11,268	..	..	..	..	..	..	..	..
Watertown,	11,077	1	0	1	..	..	..	..	..
Plymouth,	10,730	..	..	..	..	..	..	..	..

RECAPITULATION.

	Population.	Deaths.	Deaths under Five.	Infectious Diseases.	Acute Lung Diseases.	Phthisis.	Diphtheria and Croup.	Diarrhœal Diseases.	Typhoid Fever.
Total of reporting towns,	2,014,387	539	138	132	64	61	15	22	20

Note.—*The populations of the Massachusetts cities were estimated upon the rate of growth from 1895 to 1900, since the State had an intermediate census in 1895. The populations of Gloucester, Marlborough and Newburyport were allowed to stand as in 1900, they having suffered a slight decrease during the five-year period.

Deaths from Prevalent Diseases in 35 Cities and Larger Towns of Massachusetts.

One hundred and thirty-two deaths were reported from the principal infectious diseases: scarlet fever, 3; cerebro-spinal meningitis, 3; diphtheria and croup, 15; whooping-cough, 2; typhoid fever, 20; diarrhœal diseases, 22; measles, 4; puerperal fever, 1; erysipelas, 1.

No deaths were reported from malarial fever, small-pox or influenza.

There were 61 deaths from consumption, acute lung diseases, 64, still-births, 40.

From measles: Boston, 3; Worcester, 1. From scarlet fever: Boston, New Bedford and North Adams, 1 each. From cerebro-spinal meningitis: Boston, Worcester, and Brockton, 1 each. From whooping-cough: Boston and Fitchburg, 1 each. From erysipelas: Boston, 1. From puerperal fever: Watertown, 1.

Deaths under five years of age numbered 138, as compared with 171 for the preceding week.

Deaths from the principal infectious diseases numbered 132, as compared with 123 for the preceding week.

The death rates for the week were: Boston, 16.81; Worcester, 9.84; Fall River, 11.25; Lowell, 16.32; Cambridge, 12.65; Lynn, 15.78; Lawrence, 15.65; Springfield, 14.23; Somerville, 6.87; New Bedford, 20.89; Holyoke, ——; Brockton, 8.11; Haverhill, 12.35; Newton, 9.62; Salem, 16.92; Malden, 15.76; Chelsea, 11.60; Fitchburg, 16.31; Taunton, 12.36; Everett, 14.54; No. Adams, 9.33; Gloucester, ——; Quincy, 7.99; Waltham, 8.25; Brookline, ——; Pittsfield, 2.30; Chicopee, 9.89; Medford, 17.37; Northampton, 18.29; Beverly, 13.60; Clinton, 20.58; Leominster, ——; Newburyport, 3.59; Woburn, ——; Hyde Park, 22.00; Adams, 7.57; Attleborough, ——; Marlborough, ——; Melrose, ——; Westfield, 19.40; Milford, ——; Revere, 4.09; Framingham, ——; Peabody, ——; Gardner, ——; Weymouth, ——; Southbridge, ——; Watertown, 4.68; Plymouth, ——.

The total death rate for the week was 13.91, as compared with 14.04 and 14.00 for the previous two weeks.

Cases of Infectious Diseases reported to the State Board of Health during the Week ending Nov. 7, 1903.

(Under the Provisions of section 52 of chapter 75, of the Revised Laws of Massachusetts.)

Scarlet fever,	70	Typhoid fever,	89
Diphtheria and croup,	203	Measles,	111
Small-pox,	1		

(SIGNED) S. W. ABBOTT, M.D.,
Secretary of the State Board of Health.

The Meteorological Record for the Week, in Boston, was as follows:

DATE.	BAROM-ETER.	THER-MOMETER.			RELATIVE HUMIDITY.			DIRECTION OF WIND.		VELOCITY OF WIND.		STATE OF WEATHER.*		RAIN-FALL.	
Week ending Saturday, Nov. 7, 1903.	MEAN.	MEAN.	MAXIMUM.	MINIMUM.	8 A.M.	8 P.M.	MEAN.	8 A.M.	8 P.M.	8 A.M.	8 P.M.	8 A.M.	8 P.M.	DURATION.	AMOUNT IN INCHES.
Sunday, 1,	30.09	56	63	49	66	53	60	W.	W.	7	10	C.	C.		0.00
Monday, 2,	30.08	56	66	47	62	46	54	W.	W.	8	4	O.	O.		0.00
Tuesday, 3,	30.03	58	68	49	65	47	56	W.	W.	10	10	C.	C.		0.00
Wednesday, 4,	29.87	63	74	52	73	57	65	W.	W.	11	10	C.	C.		0.00
Thursday, 5,	29.58	51	64	38	83	78	80	S. W.	N. W.	12	14	R.	O.		0.26
Friday, 6,	29.86	35	39	31	86	95	90	N.	N.	9	10	O.	N.		0.12
Saturday, 7,	29.98	35	40	30	84	50	67	W.	N. W.	14	12	F.	C.		0.04
Week,	29.93		59	42			67								0.42

* O. = Cloudy; C. = Clear; F. = Fair; G. = Fog; H. = Hazy; S. = Smoky; R. = Rain; T. = Threatening; N. = Snow.

Weekly Bulletin

OF THE

STATE BOARD OF HEALTH

OF

MASSACHUSETTS

FOR THE

Week ending Saturday, Nov. 14, 1903.

An official publication of the State Board of Health of Massachusetts, published weekly at the office of the Board, State House, Boston, Mass.

VOL. XXI. No. 46.

Entered at the post-office at Boston as second-class matter.

This publication contains the returns of deaths made each week to the State Board of Health from cities and towns in Massachusetts having over 10,000 inhabitants in each.

It also contains the reports of cases of infectious diseases returned by the boards of health of cities and towns.

Once in each month the work done under the Food and Drug Acts is also reported in this bulletin.

STATE BOARD OF HEALTH.

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CHARLES H. PORTER, Quincy.
JOHN W. BARTOL, M.D., Boston.

SAMUEL W. ABBOTT, M.D., *Secretary.*

MORTALITY OF MASSACHUSETTS

For the Week ending Nov. 14, 1903.

Deaths reported to the State Board of Health in 38 Cities and Greater Towns.

The number of deaths *reported* each week does not exactly correspond with the number which *occurred* during that week, but the discrepancy is a slight one in most cases. The mortality report is published weekly, and contains the returns from such cities and towns having a population of more than 10,000 inhabitants as have sent to the office of the State Board of Health the death returns of the previous week.

We shall esteem it a great favor if all reporting towns will send us their returns weekly, as heretofore, upon postal cards provided for the purpose. A supply of these cards will be sent to any town clerk or health officer who has charge of such returns and is willing to comply with this request.

CITIES AND TOWNS.	* Population. Estimated for 1903.	Reported Deaths in Each.	Deaths under Five Years.	Deaths from Principal Infectious Diseases.	Acute Lung Diseases.	Phthisis.	Diphtheria and Croup.	Diarrhœal Diseases.	Typhoid Fever.
Boston,	603,163	192	43	39	31	21	4	4	4
Worcester,	132,044	33	11	1	8	1	..	..	..
Fall River,	115,549	31	10	11	5	5	..	5	1
Lowell,	101,959	29	10	3	6	1	1	..	..
Cambridge,	98,639	21	9	5	3	1	2	1	..
Lynn,	72,497	17	5	1	2	..	..	..	..
Lawrence,	69,766	23	8	5	1	3	2	..	..
Springfield,	69,389	26	1	6	3	2	2	..	2
Somerville,	68,110	..	..	..	..	..	..	..	..
New Bedford,	67,198	32	14	8	4	4	..	2	1
Holyoke,	49,286	..	..	..	..	..	..	..	..
Brockton,	44,873	12	3	3	..	2	1	..	..
Haverhill,	42,104	10	4	1	2	1	..	..	..
Newton,	37,794	14	5	2	1	2	..	..	..
Salem,	36,876	11	1	3	..	1	..	..	..
Malden,	36,286	11	1	..	2	..	..	..	..
Chelsea,	35,876	7	0	..	1	..	..	..	..
Fitchburg,	35,069	3	..	1	1	..	..	..	1
Taunton,	33,656	9	2	1	2	..	1	..	..
Everett,	28,620	6	4	1	..	..	..	..	..
North Adams,	27,862	6	..	1	..	..	..	1	..
Gloucester,	26,121	..	..	..	..	..	..	..	..
Quincy,	26,042	7	2	1	..	..	..	1	..
Waltham,	25,198	7	..	..	1	..	..	..	..
Brookline,	22,608	4	1	..	..	..	..	..	..
Pittsfield,	22,589	8	1	2	2	1	..	..	1
Chicopee,	21,031	6	2	4	1	3	..	..	..
Medford,	20,962	4	..	..	1	..	..	..	..
Northampton,	19,883	4	1	..	1	..	..	..	..
Beverly,	15,302	4	1	..	2	..	..	..	..
Clinton,	15,161	4	..	..	..	..	..	..	..
Leominster,	14,806	..	..	..	..	..	..	..	..
Newburyport,	14,478	7	0	2	..	2	..	..	..
Woburn,	14,300	3	..	1	..	1	..	..	..
Hyde Park,	14,175	5	1	1	..	..	..	1	..
Adams,	13,745	..	..	..	..	..	..	..	..
Attleborough,	13,677	..	..	..	..	..	..	..	..
Marlborough,	13,609	5	0	1	2	1	..	..	..
Melrose,	13,600	2	..	..	..	..	..	..	..
Westfield,	13,418	1	..	..	..	..	..	..	..
Milford,	13,129	..	..	..	..	..	..	..	..
Revere,	12,722	1	1	..	..	..	..	..	..
Framingham,	12,534	2	..	..	..	..	..	..	..
Peabody,	12,179	..	..	..	..	..	..	..	..
Gardner,	11,928	..	..	..	..	..	..	..	..
Weymouth,	11,344	3	2	2	..	..	..	..	..
Southbridge,	11,268	..	..	..	..	..	..	..	..
Watertown,	11,077	3	1	1	..	1	..	..	..
Plymouth,	10,730	..	..	..	..	..	..	..	..

RECAPITULATION.

	Population.	Deaths.	Deaths under Five.	Infectious Diseases.	Acute Lung Diseases.	Phthisis.	Diphtheria and Croup.	Diarrhœal Diseases.	Typhoid Fever.
Total of reporting towns,	2,009,253	573	144	107	82	53	13	15	10

Note.—* The populations of the Massachusetts cities were estimated upon the rate of growth from 1895 to 1900, since the State had an intermediate census in 1895. The populations of Gloucester, Marlborough and Newburyport were allowed to stand as in 1900, they having suffered a slight decrease during the five-year period.

Deaths from Prevalent Diseases in 38 Cities and Larger Towns of Massachusetts.

One hundred and seven deaths were reported from the principal infectious diseases: scarlet fever, 2; cerebro-spinal meningitis, 5; diphtheria and croup, 13; whooping-cough, 2; typhoid fever, 10; diarrhœal diseases, 15; measles, 3; puerperal fever, 1; erysipelas, 3.

No deaths were reported from malarial fever, small-pox or influenza.

There were 53 deaths from consumption, acute lung diseases, 82, still-births, 36.

From measles: Boston, 3. From scarlet fever: Lowell and Cambridge, 1 each. From cerebro-spinal meningitis: Boston, Lynn and Everett, 1 each; Weymouth, 2. From diphtheria and croup: Boston, 4; Cambridge, Lawrence and Springfield, 2 each; Lowell, Brockton and Taunton, 1 each. From whooping-cough: Salem and Chicopee, 1 each. From erysipelas: Boston, 2; Salem, 1.

Deaths under five years of age numbered 144, as compared with 138 for the preceding week.

Deaths from the principal infectious diseases numbered 107, as compared with 132 for the preceding week.

The death rates for the week were: Boston, 16.55; Worcester, 12.99; Fall River, 13.95; Lowell, 14.79; Cambridge, 11.07; Lynn, 12.19; Lawrence, 17.14; Springfield, 19.48; Somerville, ——; New Bedford, 24.76; Holyoke, ——; Brockton, 13.90; Haverhill, 12.35; Newton, 19.25; Salem, 15.51; Malden, 15.76; Chelsea, 10.15; Fitchburg, 4.45; Taunton, 13.90; Everett, 10.91; No. Adams, 11.20; Gloucester, ——; Quincy, 13.98; Waltham, 14.44; Brookline, 9.20; Pittsfield, 18.41; Chicopee, 14.84; Medford, 9.92; Northampton, 10.45; Beverly, 13.60; Clinton, 13.72; Leominster, ——; Newburyport, 25.14; Woburn, 10.91; Hyde Park, 18.34; Adams, ——; Attleborough, ——; Marlborough, 19.11; Melrose, 7.65; Westfield, 3.88; Milford, ——; Revere, 4.09; Framingham, 8.33; Peabody, ——; Gardner, ——; Weymouth, 13.75; Southbridge, ——; Watertown, 14.05; Plymouth, ——.

The total death rate for the week was 14.82, as compared with 13.91 and 14.04 for the previous two weeks.

Cases of Infectious Diseases reported to the State Board of Health during the Week ending Nov. 14, 1903.

(Under the Provisions of section 52 of chapter 75, of the Revised Laws of Massachusetts.)

Scarlet fever,	77	Typhoid fever,	69
Diphtheria and croup,	221	Measles,	138
Small-pox,	2		

(SIGNED) S. W. ABBOTT, M.D.,
Secretary of the State Board of Health.

The Meteorological Record for the Week, in Boston, was as follows:

DATE.	BAROM-ETER.	THER-MOMETER.			RELATIVE HUMIDITY.			DIRECTION OF WIND.		VELOCITY OF WIND.		STATE OF WEATHER.*		RAIN-FALL.	
Week ending Saturday, Nov. 14, 1903.	MEAN.	MEAN.	MAXIMUM.	MINIMUM.	8 A.M.	8 P.M.	MEAN.	8 A.M.	8 P.M.	8 A.M.	8 P.M.	8 A.M.	8 P.M.	DURATION.	AMOUNT IN INCHES.
Sunday, 8,	30.17	43	52	34	38	57	48	W.	W.	20	8	O.	C.		0.00
Monday, 9,	30.18	52	64	40	60	42	51	W.	S. W.	8	9	C.	C.		0.00
Tuesday, 10,	29.96	52	60	44	69	59	64	S. W.	S. W.	12	7	O.	C.		0.00
Wednesday, 11,	29.96	48	52	43	77	83	80	N. E.	N. E.	8	9	C.	C.		0.00
Thursday, 12,	29.91	51	59	43	85	40	62	W.	W.	12	10	O.	C.		T
Friday, 13,	30.00	52	61	42	61	41	51	S.	W.	12	9	F.	C.		0.00
Saturday, 14,	30.05	44	49	40	44	48	46	N.	W.	6	10	O.	C.		0.00
Week,	30.03		57	41			57								T

* O. = Cloudy; C. = Clear; F. = Fair; G. = Fog; H. = Hazy; S. = Smoky; R. = Rain; T. = Threatening; N. = Snow.

INSPECTION OF FOOD AND DRUGS.

The following summary presents the results of the examinations of Food and Drugs by the State Board of Health in the month of October, 1903 : —

ARTICLES EXAMINED.	Number found to be of good quality.	Number adulterated or varying from the legal standard.	TOTAL.	ARTICLES EXAMINED.	Number found to be of good quality.	Number adulterated or varying from the legal standard.	TOTAL.
Milk, . . .	241	300	541	Canned Goods, .	..	..	..
Butter, . . .	4	1	5	Honey, . . .	1	..	1
Cheese, . . .	3	1	4	Tea, . . .	2	..	2
Lard, . . .	..	..	..	Coffee, . . .	1	..	1
Olive Oil, . . .	..	..	..	Cocoa and Chocolate,	3	..	3
Vinegar, . . .	8	3	11	Condensed Milk, .	3	2	5
Spices, . . .	134	6	140	Vanilla Extract, .	..	1	1
Cream of Tartar, .	26	1	27	Lemon Extract, .	..	1	1
Molasses, . . .	8	..	8	Miscellaneous, .	4	5	9
Syrups, . . .	..	..	..	Drugs, . . .	59	42	101
Maple Sugar, . .	1	..	1				
Maple Syrup, . .	..	..	..				
				Totals, . .	498	363	861

Percentage of adulteration, 42.1. The actual ratio of adulteration is very much less than this, since it is only suspicious articles of food to which the attention of the Board is directed. Certain staple products, such as sugar, flour, and the various other cereal products, are very rarely adulterated and require but little inspection. The work of the Board is therefore mainly devoted to the inspection of such articles as it has found, by several years of experience, to be especially liable to adulteration.

The ratio of samples of milk found to be below the standard was 55.5 per cent., while the percentage of articles of food was 9.6 per cent.

Nine complaints were entered in the courts during the month for violation of the laws relative to the inspection of Food and Drugs. Six of them were disposed of as shown on following page.

The samples of drugs found to be adulterated were Æther, Aqua Ammonia Fort, Aqua Destillata, Alcohol, Capsicum, Ferri et Quininæ, Glycerinum, Oleum Limonis, Opii Pulvis, Phenacetine, Sodii Boras, Sulphur Lotum, Sulphur Præcipitatum, Syrupus and Tinctura Iodi.

Cities and towns from which samples of food were collected were Boston, Newburyport, Somerville, Lowell, Salem, Malden, Worcester, Everett, Haverhill, Cambridge, New Bedford, Chelsea, Springfield, Holyoke, Brockton, Newton, No. Adams, Gloucester, Waltham, Adams, Weymouth, Watertown, Plymouth and Braintree.

RECORD OF PROSECUTIONS IN OCTOBER, 1903.

No.	Date of Trial.	Name of Defendant.	Place.	Character of Articles Sold.	Result of Trial.
1	October 2,	Philip Davison,	Boston,	Cream Cheese,	Conviction.
2	October 2,	Philip Davison,	Boston,	Cream Cheese,	Conviction.
3	October 3,	William H. Chuzner,	Lowell,	Raspberry Preserve,	Conviction.
4	October 14,	Joseph Bosse,	Lowell,	Milk,	Conviction.
5	October 27,	Wallace A. Crosby,	Salem,	Milk,	Conviction.
6	October 27,	Wallace A. Crosby,	Salem,	Milk (Colored),	Conviction.

The total solids in samples of milk, upon which the foregoing cases were entered, were 9.55, 10.02 and 10.02. No. 6 was colored with Analine Orange dye.

Total amount of fines, $84.30.

Weekly Bulletin

OF THE

STATE BOARD OF HEALTH

OF

MASSACHUSETTS

FOR THE

Week ending Saturday, Nov. 21, 1903.

An official publication of the State Board of Health of Massachusetts, published weekly at the office of the Board, State House, Boston, Mass.

VOL. XXI. No. 47.

Entered at the post-office at Boston as second-class matter.

This publication contains the returns of deaths made each week to the State Board of Health from cities and towns in Massachusetts having over 10,000 inhabitants in each.

It also contains the reports of cases of infectious diseases returned by the boards of health of cities and towns.

Once in each month the work done under the Food and Drug Acts is also reported in this bulletin.

STATE BOARD OF HEALTH.

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CHARLES H. PORTER, Quincy.
JOHN W. BARTOL, M.D., Boston.

SAMUEL W. ABBOTT, M.D., *Secretary.*

MORTALITY OF MASSACHUSETTS

For the Week ending Nov. 21, 1903.

Deaths reported to the State Board of Health in 41 Cities and Greater Towns.

The number of deaths *reported* each week does not exactly correspond with the number which *occurred* during that week, but the discrepancy is a slight one in most cases. The mortality report is published weekly, and contains the returns from such cities and towns having a population of more than 10,000 inhabitants as have sent to the office of the State Board of Health the death returns of the previous week.

We shall esteem it a great favor if all reporting towns will send us their returns weekly, as heretofore, upon postal cards provided for the purpose. A supply of these cards will be sent to any town clerk or health officer who has charge of such returns and is willing to comply with this request.

CITIES AND TOWNS.	*Population. Estimated for 1903.	Reported Deaths in Each.	Deaths under Five Years.	Deaths from: Principal Infectious Diseases.	Acute Lung Diseases.	Phthisis.	Diphtheria and Croup.	Diarrhœal Diseases.	Typhoid Fever.
Boston,	603,163	169	42	32	25	17	7	2	3
Worcester,	132,044	24	8	..	2	..	..	..	..
Fall River,	115,549	28	14	7	8	1	3	3	..
Lowell,	101,959	20	6	1	3	..	..	..	..
Cambridge,	98,639	24	10	5	5	..	4	1	..
Lynn,	72,497	14	3	1	1	1	..	..	..
Lawrence,	69,766	14	3	5	1	3	..	1	..
Springfield,	69,389	11	3	1	2	..	..	..	1
Somerville,	68,110	10	..	2	1	1	1	..	..
New Bedford,	67,198	14	7	4	2	..	1	3	..
Holyoke,	49,286	9	4	5	1	..	..	3	1
Brockton,	44,873	6	1	..	..	..	..	..	..
Haverhill,	42,104	7	1	1	2	..	..	1	..
Newton,	37,794	7	1	2	..	..	1	..	1
Salem,	36,876	14	3	2	..	..	..	..	2
Malden,	36,286	12	1	3	3	..	..	..	1
Chelsea,	35,876	7	1	4	..	4	..	..	..
Fitchburg,	35,069	11	2	..	1	..	..	..	..
Taunton,	33,656	11	2	..	1	..	..	..	..
Everett,	28,620	8	2	..	..	..	..	..	..
North Adams,	27,862	7	3	2	..	..	1	..	..
Gloucester,	26,121	..	..	..	..	..	..	..	..
Quincy,	26,042	2	..	1	..	..	1	..	..
Waltham,	25,198	5	2	2	..	1	1	..	..
Brookline,	22,608	2	..	1	..	1	..	..	..
Pittsfield,	22,589	5	1	..	2	..	..	..	..
Chicopee,	21,031	9	3	2	..	1	..	1	..
Medford,	20,962	2	..	..	..	..	..	..	..
Northampton,	19,883	2	0	..	..	..	..	..	..
Beverly,	15,302	3	..	2	..	2	..	..	..
Clinton,	15,161	1	1	..	..	..	..	..	..
Leominster,	14,806	..	..	..	..	..	..	..	..
Newburyport,	14,478	6	0	..	1	..	..	..	..
Woburn,	14,300	8	4	3	1	1	1	1	..
Hyde Park,	14,175	3	0	1	..	1	..	..	..
Adams,	13,745	5	2	4	..	1	..	1	1
Attleborough,	13,677	1	..	..	..	..	..	..	..
Marlborough,	13,609	4	0	1	2	1	..	..	..
Melrose,	13,600	..	..	..	..	..	..	..	..
Westfield,	13,418	1	..	..	..	..	..	..	..
Milford,	13,129	..	..	..	..	..	..	..	..
Revere,	12,722	1	..	..	..	..	..	..	..
Framingham,	12,534	3	..	..	..	..	..	..	..
Peabody,	12,179	..	..	..	..	..	..	..	..
Gardner,	11,928	..	..	..	..	..	..	..	..
Weymouth,	11,344	1	1	..	..	..	..	..	..
Southbridge,	11,268	..	..	..	..	..	..	..	..
Watertown,	11,077	3	1	..	..	..	..	..	..
Plymouth,	10,730	..	..	..	..	..	..	..	..

RECAPITULATION.

	Population.	Deaths.	Deaths under Five.	Infectious Diseases.	Acute Lung Diseases.	Phthisis.	Diphtheria and Croup.	Diarrhœal Diseases.	Typhoid Fever.
Total of reporting towns,	2,140,471	494	132	94	64	36	21	17	10

Note.—*The populations of the Massachusetts cities were estimated upon the rate of growth from 1895 to 1900, since the State had an intermediate census in 1895. The populations of Gloucester, Marlborough and Newburyport were allowed to stand as in 1900, they having suffered a slight decrease during the five-year period.

Deaths from Prevalent Diseases in 41 Cities and Larger Towns of Massachusetts.

Ninety-four deaths were reported from the principal infectious diseases: scarlet fever, 2; cerebro-spinal meningitis, 2; diphtheria and croup, 21; whooping-cough, 1; typhoid fever, 10; diarrhœal diseases, 17; measles, 3; erysipelas, 2.

No deaths were reported from malarial fever, puerperal fever, small-pox or influenza.

There were 36 deaths from consumption, acute lung diseases, 64, still-births, 33.

From measles: Boston, 2; Malden, 1. From scarlet fever: Malden, 1; North Adams, 1. From cerebro-spinal meningitis: Lowell, 1; Lawrence, 1. From diphtheria and croup: Boston, 7; Cambridge, 4; Fall River, 3; and New Bedford, Somerville, Newton, North Adams, Quincy, Waltham and Woburn, 1 each. From whooping-cough: Boston, 1. From erysipelas: Holyoke and Adams, 1 each.

Deaths under five years of age numbered 132, as compared with 144 for the preceding week.

Deaths from the principal infectious diseases numbered 94, as compared with 107 for the preceding week.

The death rates for the week were: Boston, 14.57; Worcester, 9.45; Fall River, 12.60; Lowell, 10.20; Cambridge, 12.65; Lynn, 10.04; Lawrence, 10.43; Springfield, 8.24; Somerville, 7.63; New Bedford, 10.83; Holyoke, 9.49; Brockton, 6.95; Haverhill, 8.64; Newton, 9.62; Salem, 19.74; Malden, 17.19; Chelsea, 10.15; Fitchburg, 16.31; Taunton, 17.00; Everett, 14.54; No. Adams, 13.06; Gloucester, ——; Quincy, 3.99; Waltham, 10.31; Brookline, 4.60; Pittsfield, 11.50; Chicopee, 22.26; Medford, 4.96; Northampton, 5.22; Beverly, 10.20; Clinton, 3.43; Leominster, ——; Newburyport, 21.55; Woburn, 29.49; Hyde Park, 10.92; Adams, 18.92; Attleborough, 3.80; Marlborough, 15.29; Melrose, ——; Westfield, 3.88; Milford, ——; Revere, 4.09; Framingham, 12.48; Peabody, ——; Gardner, ——; Weymouth, 4.58; Southbridge, ——; Watertown, 14.05; Plymouth, ——.

The total death rate for the week was 12.00, as compared with 14.82 and 13.91 for the previous two weeks.

Cases of Infectious Diseases reported to the State Board of Health during the Week ending Nov. 21, 1903.

(Under the Provisions of section 52 of chapter 75, of the Revised Laws of Massachusetts.)

Scarlet fever,	123	Typhoid fever,	86
Diphtheria and croup,	190	Measles,	133
Small-pox,	4		

(SIGNED) **S. W. ABBOTT, M.D.,**
Secretary of the State Board of Health.

The Meteorological Record for the Week, in Boston, was as follows:

DATE.	BAROMETER.	THERMOMETER.			RELATIVE HUMIDITY.			DIRECTION OF WIND.		VELOCITY OF WIND.			STATE OF WEATHER.*			RAIN-FALL.	
Week ending Saturday, Nov. 21, 1903.	MEAN.	MEAN.	MAXIMUM.	MINIMUM.	8 A.M.	8 P.M.	MEAN.	8 A.M.	8 P.M.	8 A.M.	8 P.M.		8 A.M.	8 P.M.		DURATION.	AMOUNT IN INCHES.
Sunday, 15,	30.08	40	45	34	64	60	62	W.	W.	12	10		C.	C.			0.00
Monday, 16,	30.06	41	46	36	66	96	81	S.	N. E.	3	10		O.	R.			0.49
Tuesday, 17,	29.82	40	45	35	95	92	94	N.	W.	5	6		R.	R.			0.47
Wednesday, 18,	30.00	36	43	28	80	54	67	N. W.	N. W.	6	14		O.	O.			0.03
Thursday, 19,	30.33	33	40	26	66	55	60	W.	W.	11	9		C.	C.			0.00
Friday, 20,	30.64	30	36	25	58	53	56	W.	N.	9	6		C.	C.			0.00
Saturday, 21,	30.66	30	36	23	67	62	64	N. W.	E.	9	5		C.	C.			0.00
Week,	30.23		42	30			69										0.99

* O. = Cloudy; C. = Clear; F. = Fair; G. = Fog; H. = Hazy; S. = Smoky; R. = Rain; T. = Threatening; N. = Snow.

Weekly Bulletin

OF THE

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MORTALITY OF MASSACHUSETTS

For the Week ending Nov. 28, 1903.

Deaths reported to the State Board of Health in 37 Cities and Greater Towns.

The number of deaths *reported* each week does not exactly correspond with the number which *occurred* during that week, but the discrepancy is a slight one in most cases. The mortality report is published weekly, and contains the returns from such cities and towns having a population of more than 10,000 inhabitants as have sent to the office of the State Board of Health the death returns of the previous week.

We shall esteem it a great favor if all reporting towns will send us their returns weekly, as heretofore, upon postal cards provided for the purpose. A supply of these cards will be sent to any town clerk or health officer who has charge of such returns and is willing to comply with this request.

CITIES AND TOWNS.	*Population. Estimated for 1903.	Reported Deaths in Each.	Deaths under Five Years.	Deaths from: Principal Infectious Diseases.	Acute Lung Diseases.	Phthisis.	Diphtheria and Croup.	Diarrhœal Diseases.	Typhoid Fever.
Boston,	603,163	188	51	45	37	30	3	3	4
Worcester,	132,044	38	13	6	5	2	..	3	..
Fall River,	115,549	38	19	4	5	..	2	2	..
Lowell,	101,959	28	2	3	4	..	..	..	2
Cambridge,	98,639	22	5	8	4	3	1	3	..
Lynn,	72,497	22	5	5	..	3	2	..	..
Lawrence,	69,766	29	11	7	4	1	2	2	1
Springfield,	69,389	26	9	6	3	4	..	..	..
Somerville,	68,110	15	5	1	3	..	1	..	..
New Bedford,	67,198	25	8	9	1	3	1	..	2
Holyoke,	49,286	..	..	..	..	..	..	..	..
Brockton,	44,873	7	1	3	..	2	..	..	..
Haverhill,	42,104	13	2	1	3	..	1	..	..
Newton,	37,794	4	..	1	..	1	..	..	..
Salem,	36,876	11	2	..	3	..	..	..	..
Malden,	36,286	13	6	3	..	2	1	..	..
Chelsea,	35,876	12	..	3	1	2	..	..	1
Fitchburg,	35,069	..	..	..	..	..	..	..	..
Taunton,	33,656	16	5	1	2	1	..	..	..
Everett,	28,620	5	1	2	..	2	..	..	..
North Adams,	27,862	9	4	4	2	1	1	..	..
Gloucester,	26,121	0	..	..	..	..	..	..	..
Quincy,	26,042	8	1	1	1	1	..	..	..
Waltham,	25,198	7	3	..	..	..	..	..	..
Brookline,	22,608	..	..	..	..	..	..	..	..
Pittsfield,	22,589	5	..	..	2	..	..	..	..
Chicopee,	21,031	5	0	1	..	1	..	..	..
Medford,	20,962	3	1	..	..	..	..	..	..
Northampton,	19,883	6	1	1	3	1	..	..	..
Beverly,	15,302	6	1	2	1	1	1	..	..
Clinton,	15,161	2	2	2	..	..	1	1	..
Leominster,	14,806	..	..	..	..	..	..	..	..
Newburyport,	14,478	..	..	..	..	..	..	..	..
Woburn,	14,300	3	..	1	..	..	..	..	..
Hyde Park,	14,175	3	0	..	1	..	..	..	..
Adams,	13,745	..	..	..	..	..	..	..	..
Attleborough,	13,677	..	..	..	..	..	..	..	..
Marlborough,	13,609	4	2	1	1	..	1	..	..
Melrose,	13,600	2	..	1	..	1	..	..	..
Westfield,	13,418	0	..	..	..	..	..	..	..
Milford,	13,129	..	..	..	..	..	..	..	..
Revere,	12,722	5	..	..	1	..	..	..	..
Framingham,	12,534	1	0	..	..	..	..	..	..
Peabody,	12,179	..	..	..	..	..	..	..	..
Gardner,	11,928	..	..	..	..	..	..	..	..
Weymouth,	11,344	3	0	1	1	1	..	..	..
Southbridge,	11,268	..	..	..	..	..	..	..	..
Watertown,	11,077	2	0	..	..	..	..	..	..
Plymouth,	10,730	..	..	..	..	..	..	..	..

RECAPITULATION.

	Population.	Deaths.	Deaths under Five.	Infectious Diseases.	Acute Lung Diseases.	Phthisis.	Diphtheria and Croup.	Diarrhœal Diseases.	Typhoid Fever.
Total of reporting towns,	2,031,329	586	160	123	88	63	18	14	10

Note.—*The populations of the Massachusetts cities were estimated upon the rate of growth from 1895 to 1900, since the State had an intermediate census in 1895. The populations of Gloucester, Marlborough and Newburyport were allowed to stand as in 1900, they having suffered a slight decrease during the five-year period.

Deaths from Prevalent Diseases in 37 Cities and Larger Towns of Massachusetts.

One hundred and twenty-three deaths were reported from the principal infectious diseases: scarlet fever, 8; cerebro-spinal meningitis, 4; diphtheria and croup, 18; whooping-cough, 2; typhoid fever, 10; diarrhœal diseases, 14; measles, 1; erysipelas, 1; puerperal fever, 2.

No deaths were reported from malarial fever, small-pox or influenza.

There were 63 deaths from consumption, acute lung diseases, 88, still-births, 29.

From measles: Boston, 1. From scarlet fever: Boston, 1; Lowell, 1; New Bedford, 3; North Adams, 1; Springfield, 1. From cerebro-spinal meningitis: Boston, Worcester, Brockton and Woburn, 1 each. From diphtheria and croup: Boston, 3; Fall River, 2; Cambridge, 1; Lynn, 2; Lawrence, 2; and New Bedford, Somerville, Haverhill, Malden, North Adams, Beverly, Clinton and Marlborough, 1 each. From whooping-cough: Boston and Springfield, 1 each. From erysipelas: Boston, 1.

Deaths under five years of age numbered 160, as compared with 132 for the preceding week.

Deaths from the principal infectious diseases numbered 123, as compared with 94 for the preceding week.

The death rates for the week were: Boston, 15.21; Worcester, 14.96; Fall River, 17.10; Lowell, 14.28; Cambridge, 11.60; Lynn, 15.78; Lawrence, 21.61; Springfield, 19.48; Somerville, 11.45; New Bedford, 19.34; Holyoke, ——; Brockton, 8.11; Haverhill, 16.05; Newton, 5.50; Salem, 15.51; Malden, 18.62; Chelsea, 17.40; Fitchburg, ——; Taunton, 24.72; Everett, 9.09; No. Adams, 16.79; Gloucester, ——; Quincy, 15.98; Waltham, 14.44; Brookline, ——; Pittsfield, 11.51; Chicopee, 12.36; Medford, 7.44; Northampton, 15.68; Beverly, 20.39; Clinton, 6.86; Leominster, ——; Newburyport, ——; Woburn, 10.91; Hyde Park, 11.00; Adams, ——; Attleborough, ——; Marlborough, 15.29; Melrose, 7.65; Westfield, ——; Milford, ——; Revere, 20.47; Framingham, 4.16; Peabody, ——; Gardner, ——; Weymouth, 13.75; Southbridge, ——; Watertown, 9.37; Plymouth, ——.

The total death rate for the week was 15.00, as compared with 12.00 and 14.82 for the previous two weeks.

Cases of Infectious Diseases reported to the State Board of Health during the Week ending Nov. 28, 1903.

(Under the Provisions of section 52 of chapter 75, of the Revised Laws of Massachusetts.)

Scarlet fever,	102	Typhoid fever,	69
Diphtheria and croup,	211	Measles,	152
Small-pox,	2		

(SIGNED) **S. W. ABBOTT, M.D.,**
Secretary of the State Board of Health.

The Meteorological Record for the Week, in Boston, was as follows:

DATE.	BAROM-ETER.	THER-MOMETER.			RELATIVE HUMIDITY.			DIRECTION OF WIND.		VELOCITY OF WIND.		STATE OF WEATHER.*		RAIN-FALL.	
Week ending Saturday, Nov. 28, 1903.	MEAN.	MEAN.	MAXIMUM.	MINIMUM.	8 A.M.	8 P.M.	MEAN.	8 A.M.	8 P.M.	8 A.M.	8 P.M.	8 A.M.	8 P.M.	DURATION.	AMOUNT IN INCHES.
Sunday, 22,	30.28	32	38	27	69	87	78	N. E.	N. W.	1	5	O.	O.		0.02
Monday, 23,	29.88	37	43	31	86	92	89	N. W.	S.	2	9	F.	R.		0.05
Tuesday, 24,	29.64	36	44	29	68	47	58	W.	W.	12	24	C.	C.		T
Wednesday, 25,	29.96	26	32	21	53	43	48	W.	W.	18	10	C.	C.		0.00
Thursday, 26,	30.06	22	28	17	50	36	43	W.	N.	9	6	C.	C.		0.00
Friday, 27,	30.03	21	27	15	79	56	68	N. W.	N.	11	15	F.	O.		0.00
Saturday, 28,	29.76	26	32	21	50	64	57	N.	W.	12	8	O.	C.		0.00
Week,	29.94		35	23			63								0.07

* O. = Cloudy; C. = Clear; F. = Fair; G. = Fog; H. = Hazy; S. = Smoky; R. = Rain; T. = Threatening; N. = Snow.

Weekly Bulletin

OF THE

STATE BOARD OF HEALTH

OF

MASSACHUSETTS

FOR THE

Week ending Saturday, Dec. 5, 1903.

An official publication of the State Board of Health of Massachusetts, published weekly at the office of the Board, State House, Boston, Mass.

VOL. XXI. No. 49.

Entered at the post-office at Boston as second-class matter.

This publication contains the returns of deaths made each week to the State Board of Health from cities and towns in Massachusetts having over 10,000 inhabitants in each.

It also contains the reports of cases of infectious diseases returned by the boards of health of cities and towns.

Once in each month the work done under the Food and Drug Acts is also reported in this bulletin.

STATE BOARD OF HEALTH.

HENRY P. WALCOTT, M.D., Cambridge, *Chairman.*
JULIAN A. MEAD, M.D., Watertown.
HIRAM F. MILLS, C.E., Lawrence.
GERARD C. TOBEY, Esq., Wareham.
JAMES W. HULL, Pittsfield.
CHARLES H. PORTER, Quincy.
JOHN W. BARTOL, M.D., Boston.

SAMUEL W. ABBOTT, M.D., *Secretary.*

MORTALITY OF MASSACHUSETTS

For the Week ending Dec. 5, 1903.

Deaths reported to the State Board of Health in 38 Cities and Greater Towns.

The number of deaths *reported* each week does not exactly correspond with the number which *occurred* during that week, but the discrepancy is a slight one in most cases. The mortality report is published weekly, and contains the returns from such cities and towns having a population of more than 10,000 inhabitants as have sent to the office of the State Board of Health the death returns of the previous week.

We shall esteem it a great favor if all reporting towns will send us their returns weekly, as heretofore, upon postal cards provided for the purpose. A supply of these cards will be sent to any town clerk or health officer who has charge of such returns and is willing to comply with this request.

CITIES AND TOWNS.	* Population. Estimated for 1903.	Reported Deaths in Each.	Deaths under Five Years.	Deaths from: Principal Infectious Diseases.	Acute Lung Diseases.	Phthisis.	Diphtheria and Croup.	Diarrhœal Diseases.	Typhoid Fever.
Boston,	603,163	214	54	41	35	22	8	2	5
Worcester,	132,044	35	8	2	6	..	1	..	1
Fall River,	115,549	46	22	11	6	3	3	4	..
Lowell,	101,959	30	9	1	9	1	..	..	..
Cambridge,	98,639	19	5	5	4	2	2	..	..
Lynn,	72,497	22	..	2	1	2	..	..	..
Lawrence,	69,766	20	10	4	4	..	..	3	..
Springfield,	69,389	21	4	2	5	1	..	..	1
Somerville,	68,110	21	6	3	3	1	..	..	..
New Bedford,	67,198	20	..	4	3	1	..	2	1
Holyoke,	49,286	17	2	5	2	4	..	..	..
Brockton,	44,873	10	0	..	..	..	..	..	..
Haverhill,	42,104	12	1	1	1	..	1	..	..
Newton,	37,794	7	2	1	..	..	1	..	..
Salem,	36,876	10	1	4	..	1	..	..	2
Malden,	36,286	10	2	1	..	..	1	..	..
Chelsea,	35,876	10	3	1	3	1	..	..	..
Fitchburg,	35,069	6	1	1	1	1	..	..	..
Taunton,	33,656	..	..	..	..	..	..	..	..
Everett,	28,620	5	2	..	..	..	..	..	..
North Adams,	27,862	8	1	5	..	2	..	..	3
Gloucester,	26,121	..	..	..	..	..	..	..	..
Quincy,	26,042	3	1	1	..	1	..	..	..
Waltham,	25,198	7	1	..	1	..	..	..	..
Brookline,	22,608	6	..	1	..	1	..	..	..
Pittsfield,	22,589	8	2	..	..	..	..	..	..
Chicopee,	21,031	3	0	..	..	..	..	..	..
Medford,	20,962	6	..	..	..	..	..	..	..
Northampton,	19,883	6	1	..	2	..	..	..	..
Beverly,	15,302	2	1	..	1	..	..	..	..
Clinton,	15,161	5	1	..	1	..	..	..	..
Leominster,	14,806	..	..	..	..	..	..	..	..
Newburyport,	14,478	2	0	..	..	..	..	..	..
Woburn,	14,300	..	..	..	..	..	..	..	..
Hyde Park,	14,175	3	1	2	..	1	..	1	..
Adams,	13,745	2	1	1	1	..	1	..	..
Attleborough,	13,677	..	..	..	..	..	..	..	..
Marlborough,	13,609	3	1	..	1	..	..	..	..
Melrose,	13,600	..	..	..	..	..	..	..	..
Westfield,	13,418	2	..	..	..	..	..	..	..
Milford,	13,129	..	..	..	..	..	..	..	..
Revere,	12,722	1	..	..	..	..	..	..	..
Framingham,	12,534	2	..	..	..	..	..	..	..
Peabody,	12,179	..	..	..	..	..	..	..	..
Gardner,	11,928	..	..	..	..	..	..	..	..
Weymouth,	11,344	3	0	..	..	..	..	..	..
Southbridge,	11,268	..	..	..	..	..	..	..	..
Watertown,	11,077	1	0	..	..	..	..	..	..
Plymouth,	10,730	..	..	..	..	..	..	..	..

RECAPITULATION.

	Population.	Deaths.	Deaths under Five.	Infectious Diseases.	Acute Lung Diseases.	Phthisis.	Diphtheria and Croup.	Diarrhœal Diseases.	Typhoid Fever.
Total of reporting towns,	2,078,838	608	133	99	90	45	18	12	13

Note.—* The populations of the Massachusetts cities were estimated upon the rate of growth from 1895 to 1900, since the State had an intermediate census in 1905. The populations of Gloucester, Marlborough and Newburyport were allowed to stand as in 1900, they having suffered a slight decrease during the five-year period.

Deaths from Prevalent Diseases in 38 Cities and Larger Towns of Massachusetts.

Ninety-nine deaths were reported from the principal infectious diseases: measles, 3; cerebro-spinal meningitis, 2; diphtheria and croup, 18; whooping-cough, 4; typhoid fever, 13; diarrhœal diseases, 12; erysipelas, 2.

No deaths were reported from malarial fever, puerperal fever, small-pox or influenza.

There were 45 deaths from consumption, acute lung diseases, 90, still-births, 40.

From measles: Boston, 3. From cerebro-spinal meningitis: Somerville, 2. From diphtheria and croup: Boston, 8; Worcester, 1; Fall River, 3; Cambridge, 2; and Haverhill, Malden, Adams and Newton, 1 each. From whooping-cough: Boston, Fall River, Lawrence, and Holyoke, 1 each. From erysipelas: Cambridge and Salem, 1 each.

Deaths under five years of age numbered 143, as compared with 160 for the preceding week.

Deaths from the principal infectious diseases numbered 99, as compared with 123 for the preceding week.

The death rates for the week were: Boston, 18.34; Worcester, 13.78; Fall River, 20.70; Lowell, 15.30; Cambridge, 10.00; Lynn, 15.77; Lawrence, 14.90; Springfield, 15.73; Somerville, 16.03; New Bedford, 15.47; Holyoke, 17.93; Brockton, 11.59; Haverhill, 14.82; Newton, 9.62; Salem, 14.10; Malden, 14.30; Chelsea, 14.50; Fitchburg, 8.90; Taunton, ——; Everett, 9.09; No. Adams, 14.93; Gloucester, ——; Quincy, 5.99; Waltham, 14.44; Brookline, 13.80; Pittsfield, 18.42; Chicopee, 7.42; Medford, 14.88; Northampton, 15.68; Beverly, 6.80; Clinton, 17.15; Leominster, ——; Newburyport, 7.18; Woburn, ——; Hyde Park, 11.00; Adams, 7.57; Attleborough, ——; Marlborough, 11.47; Melrose,——; Westfield, 7.76; Milford, ——; Revere, 4.09; Framingham, 8.32; Peabody, ——; Gardner, ——; Weymouth, 14.75; Southbridge, —— ; Watertown, 4.68; Plymouth, ——.

The total death rate for the week was 15.20, as compared with 15.00 and 12.00 for the previous two weeks.

Cases of Infectious Diseases reported to the State Board of Health during the Week ending Dec. 5, 1903.

(Under the Provisions of section 52 of chapter 75, of the Revised Laws of Massachusetts.)

Scarlet fever, ...	130	Typhoid fever, ...	66
Diphtheria and croup, ...	184	Measles, ...	178
Small-pox, ...	5		

(SIGNED) **S. W. ABBOTT, M.D.,**
Secretary of the State Board of Health.

The Meteorological Record for the Week, in Boston, was as follows:

DATE.	BAROM-ETER.	THER-MOMETER.			RELATIVE HUMIDITY.			DIRECTION OF WIND.		VELOCITY OF WIND.			STATE OF WEATHER.*			RAIN-FALL.	
Week ending Saturday, Dec. 5, 1903.	MEAN.	MEAN.	MAXIMUM.	MINIMUM.	8 A.M.	8 P.M.	MEAN.	8 A.M.	8 P.M.	8 A.M.	8 P.M.		8 A.M.	8 P.M.		DURATION.	AMOUNT IN INCHES.
Sunday, Nov. . 29,	29.70	23	30	16	68	73	70	N. W.	N. W.	7	9		O.	O.			T
Monday, . . 30,	29.92	30	35	25	81	62	72	W.	N. W.	8	8		C.	C.			T
Tuesday, Dec. . 1,	30.30	27	33	21	78	73	76	N. W.	N.	9	4		C.	C.			0.00
Wednesday, . 2,	30.20	30	35	26	84	94	89	N.	N.	12	18		O.	N.			0.14
Thursday, . . 3,	30.04	29	32	26	88	89	88	N.	N.	18	18		O.	O.			0.10
Friday, . . 4,	30.02	34	38	29	79	75	77	N.	W.	14	8		O.	C.			T
Saturday, . . 5,	30.06	34	40	27	69	82	76	W.	W.	11	8		O.	O.			T
Week, . . .	30.03		35	24			78										0.24

* O. = Cloudy; C. = Clear; F. = Fair; G. = Fog; H. = Hazy; S. = Smoky; R. = Rain; T. = Threatening; N. = Snow.

Weekly Bulletin

OF THE

STATE BOARD OF HEALTH

OF

MASSACHUSETTS

FOR THE

Week ending Saturday, Dec. 12, 1903.

An official publication of the State Board of Health of Massachusetts, published weekly at the office of the Board, State House, Boston, Mass.

VOL. XXI. No. 50.

Entered at the post-office at Boston as second-class matter.

This publication contains the returns of deaths made each week to the State Board of Health from cities and towns in Massachusetts having over 10,000 inhabitants in each.

It also contains the reports of cases of infectious diseases returned by the boards of health of cities and towns.

Once in each month the work done under the Food and Drug Acts is also reported in this bulletin.

STATE BOARD OF HEALTH.

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SAMUEL W. ABBOTT, M.D., *Secretary.*

MORTALITY OF MASSACHUSETTS

For the Week ending Dec. 12, 1903.

Deaths reported to the State Board of Health in 36 Cities and Greater Towns.

The number of deaths *reported* each week does not exactly correspond with the number which *occurred* during that week, but the discrepancy is a slight one in most cases. The mortality report is published weekly, and contains the returns from such cities and towns having a population of more than 10,000 inhabitants as have sent to the office of the State Board of Health the death returns of the previous week.

We shall esteem it a great favor if all reporting towns will send us their returns weekly, as heretofore, upon postal cards provided for the purpose. A supply of these cards will be sent to any town clerk or health officer who has charge of such returns and is willing to comply with this request.

CITIES AND TOWNS.	*Population. Estimated for 1903.	Reported Deaths in Each.	Deaths under Five Years.	Deaths from — Principal Infectious Diseases.	Acute Lung Diseases.	Phthisis.	Diphtheria and Croup.	Diarrhœal Diseases.	Typhoid Fever.
Boston,	603,163	221	55	48	46	30	5	4	1
Worcester,	132,044	29	4	4	8	3	..	1	..
Fall River,	115,549	34	14	9	9	3	1	4	1
Lowell,	101,959	33	6	6	8	3	2	..	..
Cambridge,	98,639	19	5	6	1	5	1	..	..
Lynn,	72,497	20	5	1	..	..	..	..	..
Lawrence,	69,766	24	6	6	3	4	1	..	1
Springfield,	69,389	19	7	3	3	2	..	1	..
Somerville,	68,110	22	6	6	4	3	1	..	..
New Bedford,	67,198	21	7	3	1	2	..	1	..
Holyoke,	49,286	21	7	5	5	4	..	..	..
Brockton,	44,873	11	2	3	..	1	..	..	2
Haverhill,	42,104	12	1	2	2	..	1	..	1
Newton,	37,794	14	2	1	1	1	..	..	..
Salem,	36,876	14	5	7	..	1	4	..	2
Malden,	36,286	11	3	4	1	3	..	..	..
Chelsea,	35,876	15	4	4	1	4	..	..	..
Fitchburg,	35,069	..	..	..	..	..	..	..	..
Taunton,	33,656	11	..	1	..	1	..	..	..
Everett,	28,620	4	2	..	..	..	..	..	..
North Adams,	27,862	4	..	1	1	..	..	..	1
Gloucester,	26,121	..	..	..	..	..	..	..	..
Quincy,	26,042	12	6	3	4	1	2	..	..
Waltham,	25,198	9	..	1	2	..	..	..	1
Brookline,	22,608	..	..	..	..	..	..	..	..
Pittsfield,	22,589	..	..	..	..	..	..	..	..
Chicopee,	21,031	4	0	..	1	..	..	..	..
Medford,	20,962	5	2	1	..	1	..	..	..
Northampton,	19,883	9	2	1	2	1	..	..	..
Beverly,	15,302	4	..	1	..	1	..	..	..
Clinton,	15,161	4	0	..	..	..	..	..	..
Leominster,	14,806	..	..	..	..	..	..	..	..
Newburyport,	14,478	7	0	2	..	2	..	..	..
Woburn,	14,300	3	2	2	..	..	..	..	..
Hyde Park,	14,175	6	1	2	1	2	..	..	..
Adams,	13,745	1	0	..	..	..	..	..	..
Attleborough,	13,677	..	..	..	..	..	..	..	..
Marlborough,	13,609	3	0	1	..	..	..	1	..
Melrose,	13,600	..	..	..	..	..	..	..	..
Westfield,	13,418	0	..	..	..	..	..	..	..
Milford,	13,129	..	..	..	..	..	..	..	..
Revere,	12,722	..	..	..	..	..	..	..	..
Framingham,	12,534	4	..	..	1	..	..	..	..
Peabody,	12,179	..	..	..	..	..	..	..	..
Gardner,	11,928	..	..	..	..	..	..	..	..
Weymouth,	11,344	4	0	..	..	..	..	..	..
Southbridge,	11,268	..	..	..	..	..	..	..	..
Watertown,	11,077	1	0	..	..	..	..	..	..
Plymouth,	10,730	..	..	..	..	..	..	..	..

RECAPITULATION.

	Population.	Deaths.	Deaths under Five.	Infectious Diseases.	Acute Lung Diseases.	Phthisis.	Diphtheria and Croup.	Diarrhœal Diseases.	Typhoid Fever.
Total of reporting towns,	2,033,806	635	154	134	105	78	18	12	10

Note.—*The populations of the Massachusetts cities were estimated upon the rate of growth from 1895 to 1900, since the State had an intermediate census in 1895. The populations of Gloucester, Marlborough and Newburyport were allowed to stand as in 1900, they having suffered a slight decrease during the five-year period.

Deaths from Prevalent Diseases in 36 Cities and Larger Towns of Massachusetts.

One hundred and thirty-four deaths were reported from the principal infectious diseases: measles, 4; cerebro-spinal meningitis, 2; diphtheria and croup, 18; whooping-cough, 2; typhoid fever, 10; diarrhœal diseases, 12; erysipelas, 1.

No deaths were reported from malarial fever, puerperal fever, small-pox or influenza.

There were 78 deaths from consumption, acute lung diseases, 105, still-births, 30.

From measles: Boston, 4. From scarlet fever: Boston, 2; Lowell, 1; Somerville, 2; Holyoke, 1; Malden, 1. From cerebro-spinal meningitis: Lynn, 1; Woburn, 1. From diphtheria and croup: Boston, 5; Fall River, 1; Lowell, 2; Cambridge, 1; Lawrence, 1; Somerville, 1; Haverhill, 1; Salem, 4; Quincy, 2. From whooping-cough: Boston and Woburn, 1 each. From erysipelas: Boston, 1.

Deaths under five years of age numbered 154, as compared with 143 for the preceding week.

Deaths from the principal infectious diseases numbered 134, as compared with 99 for the preceding week.

The death rates for the week were: Boston, 19.05; Worcester, 11.42; Fall River, 15.30; Lowell, 16.83; Cambridge, 10.02; Lynn, 14.34; Lawrence, 17.89; Springfield, 14.23; Somerville, 16.78; New Bedford, 16.25; Holyoke, 22.15; Brockton, 12.64; Haverhill, 14.82; Newton, 19.25; Salem, 19.74; Malden, 15.76; Chelsea, 21.75; Fitchburg, ——; Taunton, 16.99; Everett, 7.27; No. Adams, 7.46; Gloucester, ——; Quincy, 23.96; Waltham, 18.57; Brookline, ——; Pittsfield, ——; Chicopee, 9.89; Medford, 10.40; Northampton, 23.49; Beverly, 13.60; Clinton, 13.72; Leominster, ——; Newburyport, 25.14; Woburn, 10.91; Hyde Park, 22.00; Adams, 3.78; Attleborough, ——; Marlborough, 11.47; Melrose, ——; Westfield, ——; Milford, ——; Revere, ——; Framingham, 16.64; Peabody, ——; Gardner, ——; Weymouth, 18.34; Southbridge, ——; Watertown, 4.68; Plymouth, ——.

The total death rate for the week was 16.23, as compared with 15.20 and 15.00 for the previous two weeks.

Cases of Infectious Diseases reported to the State Board of Health during the Week ending Dec. 12, 1903.

(Under the Provisions of section 52 of chapter 75, of the Revised Laws of Massachusetts.)

Scarlet fever,	130	Typhoid fever,	50
Diphtheria and croup,	216	Measles,	241
Small-pox,	1		

(SIGNED) **S. W. ABBOTT, M.D.,**
Secretary of the State Board of Health.

The Meteorological Record for the Week, in Boston, was as follows:

DATE.	BAROMETER.	THERMOMETER.			RELATIVE HUMIDITY.			DIRECTION OF WIND.		VELOCITY OF WIND.		STATE OF WEATHER.*		RAIN-FALL.	
Week ending Saturday, Dec. 12, 1903.	MEAN.	MEAN.	MAXIMUM.	MINIMUM.	8 A.M.	8 P.M.	MEAN.	8 A.M.	8 P.M.	8 A.M.	8 P.M.	8 A.M.	8 P.M.	DURATION.	AMOUNT IN INCHES.
Sunday, 6,	30.00	32	38	25	68	65	66	W.	W.	12	12	C.	C.		0.00
Monday, 7,	29.96	34	40	28	72	60	66	S. W.	S. W.	9	10	F.	C.		0.00
Tuesday, 8,	30.04	38	44	31	84	62	73	S. W.	N.	8	6	C.	C.		0.00
Wednesday, 9,	29.68	43	52	34	74	100	87	N. E.	N. E.	8	30	O.	R.		0.32
Thursday, 10,	29.43	42	52	32	87	70	78	S. W.	S. W.	20	10	O.	C.		0.43
Friday, 11,	29.96	32	37	28	76	46	61	W.	S. W.	10	8	C.	C.		0.00
Saturday, 12,	30.30	34	45	24	74	66	70	S. W.	S.	12	10	C.	O.		0.00
Week,	29.91		44	29			72								0.75

* O. = Cloudy; C. = Clear; F. = Fair; G. = Fog; H. = Hazy; S. = Smoky; R. = Rain; T. = Threatening; N. = Snow.

INSPECTION OF FOOD AND DRUGS.

The following summary presents the results of the examinations of Food and Drugs by the State Board of Health in the month of November, 1903 : —

ARTICLES EXAMINED.	Number found to be of good quality.	Number adulterated or varying from the legal standard.	TOTAL.	ARTICLES EXAMINED.	Number found to be of good quality.	Number adulterated or varying from the legal standard.	TOTAL.
Milk, . . .	112	151	263	Canned Goods, .	..	..	..
Butter, . . .	8	1	9	Honey, . . .	1	1	2
Cheese, . . .	4	..	4	Tea, . . .	..	..	..
Lard, . . .	2	..	2	Coffee, . . .	2	..	2
Olive Oil, . . .	..	..	..	Cocoa and Chocolate,	1	..	1
Vinegar, . . .	..	..	..	Confectionery, .	10	1	11
Spices, . . .	75	3	78	Lemon Extract, .	1	1	2
Cream of Tartar, .	18	..	18	Vanilla Extract, .	3	..	3
Molasses, . . .	1	..	1	Miscellaneous, .	3	6	9
Syrups, . . .	..	..	..	Drugs, . . .	26	26	52
Maple Sugar, . .	..	..	..				
Maple Syrup, . .	1	..	1				
				Totals, . .	268	190	458

Percentage of adulteration, 41.5. The actual ratio of adulteration is very much less than this, since it is only suspicious articles of food to which the attention of the Board is directed. Certain staple products, such as sugar, flour, and the various other cereal products, are very rarely adulterated and require but little inspection. The work of the Board is therefore mainly devoted to the inspection of such articles as it has found, by several years of experience, to be especially liable to adulteration.

The ratio of samples of milk found to be below the standard was 57.4 per cent., while the percentage of articles of food was 9.1 per cent.

Twelve complaints were entered in the courts during the month for violation of the laws relative to the inspection of Food and Drugs.

The samples of drugs found to be adulterated were Cera Alba, Oleum Limonis, Phenacetine, Sodii Boras, and Tinctura Iodi.

Cities and towns from which samples of food were collected were Boston, Cambridge, Somerville, Springfield, Salem, Gloucester, Newton, Marlborough, Weymouth, Whitman, Braintree, Lowell, Lawrence, Newburyport, Winthrop, Revere, Canton, Worcester, Attleborough, Andover, Chelsea, Westfield, Concord and Milford.

RECORD OF PROSECUTIONS IN NOVEMBER, 1903.

No.	Date of Trial.	Name of Defendant.	Place.	Character of Articles Sold.	Result of Trial.
1	November 3,	Chas. D. Bailey,	Salem,	Milk (Colored),	Conviction.
2	November 3,	Chas. D. Bailey,	Salem,	Milk,	Conviction. Placed on file.
3	November 3,	P. J. Dugan,	Salem,	Milk (Colored),	Nol Prossed.
4	November 3,	P. J. Dugan,	Salem,	Milk,	Nol Prossed.
5	November 5,	H. E. Ensher,	Brockton,	Milk,	Conviction.
6	November 7,	John Homer,	Newburyport,	Tict. Iodine,	Conviction. Appealed.
7	November 7,	John Homer,	Newburyport,	Dist. Water,	Placed on file.
8	November 9,	H. K. Mansfield,	Boston,	Phenacetine,	Conviction. Placed on file.
9	November 9,	Fred M. Gardner,	Boston,	Phenacetine,	Conviction.
10	November 24,	Leslie M. Frye,	Boston,	Phenacetine,	Continued to Dec. 1.
11	November 24,	Stanley Donahue,	Boston,	Phenacetine,	Defaulted.
12	November 28,	John Hanlon,	Lowell,	Milk,	Conviction.

The total solids in samples of milk, upon which the foregoing cases were entered, were 10.56, 10.56, 11.27 and 10.88. The cases against P. J. Dugan, were later brought against Chas. D. Bailey from whom the milk was obtained.

Total amount of fines, $290.00.

Commonwealth of Massachusetts.—State Board of Health.

Publication of Results of Analyses of Certain Articles of Food, required by Chapter 272, of the Acts of 1902, for the Months of October and November, 1903.

Number of Sample.	Date of Collection.	City or Town where Purchased.	Character of Sample.	Brand or Name of Manufacturer, Wholesaler or Producer.	Results of Analyses.
49090	October 30.	Boston.	Cheese.	Crescent Neufchatel cheese.	Skim milk cheese.
0709	November 5.	Boston.	Caramels.	Confectioner, Court St., Boston.	Containing paraffin. (about 5%.)
843 M	November 5.	Allston.	Honey.	Wild Rose California Honey. San Diego Honey Co., San Francisco, Cal.	Admixture of glucose and cane sugar.
49001	October 23.	Lowell.	Strawberry Jam.	Ideal Preserving Co , Boston, Mass.	Preserved with benzoic acid. Not in formula.
48820	October 5.	Somerville.	Raspberry Jam.	Logan, Johnson & Co., Boston, Mass.	Preserved with benzoic acid. Not in formula.
907 M	November 19.	Boston.	Hamburger Steak.	Eagle Brand, Nat'l Beef Co., 13½ Blackstone St., Boston.	Preserved with sulphurous acid.
0682	October 29.	Boston.	Beef Extract.	Premier Brand, Libby, McNeill & Libby, Chicago.	Contains 38.9% salt.
5320 K	November 21.	Lawrence.	Ginger.	Ragus Tea & Coffee Co., N. Y.	Admixture of wheat and buckwheat.
5324 K	November 21.	Lawrence.	Pepper.	Ragus Tea & Coffee Co., N. Y.	Large admixture of wheat.
5314 K	November 21.	Lawrence.	Lemon Extract.	Ragus Tea & Coffee Co , N. Y.	Contains only 0.6% lemon oil. 60% alcohol.
233 M	September 30.	Boston.	Lemon Extract.	L W. Manning, Somerville.	1.4% lemon oil. 51.8% alcohol.
571 M	October 17.	No. Adams.	Borax.	Eclipse brand "Best Refined," M. J. & H. J. Meyer Co., N. Y.	Entirely sodium bicarbonate.
4898 K	November 2.	Boston.	Borax.	Crescent brand. C. L. Hirst & Co , New York.	Admixtureof sodium bicarbonate.
5180 K	November 2.	Boston.	"Liquozone."	"Simply Liquid Oxygen." The Liquid Ozone Co., Chicago.	A solution of 1.35% sulphurous and 1.08% sulphuric acids, in water. With this combination of acids, the teeth are liable to injury, unless the preparation is quite largely diluted.

Weekly Bulletin

OF THE

STATE BOARD OF HEALTH

OF

MASSACHUSETTS

FOR THE

Week ending Saturday, Dec. 19, 1903.

An official publication of the State Board of Health of Massachusetts, published weekly at the office of the Board, State House, Boston, Mass.

VOL. XXI. No. 51.

Entered at the post-office at Boston as second-class matter.

This publication contains the returns of deaths made each week to the State Board of Health from cities and towns in Massachusetts having over 10,000 inhabitants in each.

It also contains the reports of cases of infectious diseases returned by the boards of health of cities and towns.

Once in each month the work done under the Food and Drug Acts is also reported in this bulletin.

STATE BOARD OF HEALTH.

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JOHN W. BARTOL, M.D., Boston.

SAMUEL W. ABBOTT, M.D., *Secretary.*

MORTALITY OF MASSACHUSETTS

For the Week ending Dec. 19, 1903.

Deaths reported to the State Board of Health in 39 Cities and Greater Towns.

The number of deaths *reported* each week does not exactly correspond with the number which *occurred* during that week, but the discrepancy is a slight one in most cases. The mortality report is published weekly, and contains the returns from such cities and towns having a population of more than 10,000 inhabitants as have sent to the office of the State Board of Health the death returns of the previous week.

We shall esteem it a great favor if all reporting towns will send us their returns weekly, as heretofore, upon postal cards provided for the purpose. A supply of these cards will be sent to any town clerk or health officer who has charge of such returns and is willing to comply with this request.

CITIES AND TOWNS.	*Population. Estimated for 1903.	Reported Deaths in Each.	Deaths under Five Years.	Deaths from: Principal Infectious Diseases.	Acute Lung Diseases.	Phthisis.	Diphtheria and Croup.	Diarrhœal Diseases.	Typhoid Fever.
Boston,	603,163	204	56	34	50	21	2	1	4
Worcester,	132,044	23	10	2	1	..	..	1	1
Fall River,	115,549	37	12	6	9	4	1	1	..
Lowell,	101,959	24	6	2	5	2	..	..	..
Cambridge,	98,639	20	8	5	4	2	1	..	..
Lynn,	72,497	21	2	5	1	1	3	..	..
Lawrence,	69,766	17	3	6	4	2	..	2	2
Springfield,	69,389	22	4	2	2	2	..	..	..
Somerville,	68,110	20	4	5	2	3	..	..	..
New Bedford,	67,198	22	6	3	5	2	..	..	1
Holyoke,	49,286	16	7	3	2	2	..	..	..
Brockton,	44,873	5	0	..	..	..	..	..	..
Haverhill,	42,104	6	2	1	..	..	..	1	..
Newton,	37,794	4	..	1	..	1	..	..	..
Salem,	36,876	10	..	..	..	..	..	..	..
Malden,	36,286	10	2	2	..	1	..	..	..
Chelsea,	35,876	9	1	..	2	..	..	..	..
Fitchburg,	35,069	7	2	1	..	1	..	..	..
Taunton,	33,656	12	2	3	1	1	..	..	..
Everett,	28,620	2	2	..	..	..	..	..	..
North Adams,	27,862	7	1	1	4	..	..	..	..
Gloucester,	26,121	7	2	..	..	..	..	..	..
Quincy,	26,042	6	1	1	1	..	1	..	..
Waltham,	25,198	7	2	..	..	..	..	..	..
Brookline,	22,608	..	..	..	..	..	..	..	..
Pittsfield,	22,589	12	2	..	3	..	..	..	..
Chicopee,	21,031	5	2	1	..	1	..	..	..
Medford,	20,962	4	3	1	1	..	..	..	..
Northampton,	19,883	3	..	..	..	..	..	..	..
Beverly,	15,302	5	..	..	1	..	..	..	..
Clinton,	15,161	..	..	..	..	..	..	..	..
Leominster,	14,806	..	..	..	..	..	..	..	..
Newburyport,	14,478	7	0	2	..	2	..	..	..
Woburn,	14,300	8	1	2	2	1	..	..	..
Hyde Park,	14,175	2	1	..	1	..	..	..	..
Adams,	13,745	8	5	1	..	..	..	..	1
Attleborough,	13,677	..	..	..	..	..	..	..	..
Marlborough,	13,609	4	0	1	..	..	1	..	..
Melrose,	13,600	1	..	..	1	..	..	..	..
Westfield,	13,418	5	2	1	1	..	1	..	..
Milford,	13,129	..	..	..	..	..	..	..	..
Revere,	12,722	3	..	..	..	..	..	..	..
Framingham,	12,534	..	..	..	..	..	..	..	..
Peabody,	12,179	..	..	..	..	..	..	..	..
Gardner,	11,928	..	..	..	..	..	..	..	..
Weymouth,	11,344	3	0	..	..	..	..	..	..
Southbridge,	11,268	..	..	..	..	..	..	..	..
Watertown,	11,077	1	1	..	..	..	..	..	..
Plymouth,	10,730	..	..	..	..	..	..	..	..

RECAPITULATION.

	Population.	Deaths.	Deaths under Five.	Infectious Diseases.	Acute Lung Diseases.	Phthisis.	Diphtheria and Croup.	Diarrhœal Diseases.	Typhoid Fever.
Total of reporting towns,	2,116,212	589	152	92	103	49	10	6	9

Note.—*The populations of the Massachusetts cities were estimated upon the rate of growth from 1895 to 1900, since the State had an intermediate census in 1895. The populations of Gloucester, Marlborough and Newburyport were allowed to stand as in 1900, they having suffered a slight decrease during the five-year period.

Deaths from Prevalent Diseases in 39 Cities and Larger Towns of Massachusetts.

Ninety-two deaths were reported from the principal infectious diseases: measles, 4; cerebro-spinal meningitis, 2; diphtheria and croup, 10; whooping-cough, 4; typhoid fever, 9; diarrhœal diseases, 6; erysipelas, 1; puerperal fever, 1; scarlet fever, 6.

No deaths were reported from malarial fever, small-pox or influenza.

There were 49 deaths from consumption, acute lung diseases, 103, still-births, 44.

From measles: Boston, 3; Cambridge, 1. From scarlet fever: Taunton, 2; Somerville, Malden, North Adams and Medford, 1 each. From cerebro-spinal meningitis: Lynn and Somerville, 1 each. From diphtheria and croup: Boston, 2; Lynn, 3; and Fall River, Cambridge, Quincy, Marlborough and Westfield, 1 each. From whooping-cough: Boston, Cambridge, Holyoke and Woburn, 1 each. From erysipelas: Boston, 1.

Deaths under five years of age numbered 152, as compared with 154 for the preceding week.

Deaths from the principal infectious diseases numbered 92, as compared with 134 for the preceding week.

The death rates for the week were: Boston, 17.58; Worcester, 9.06; Fall River, 16.65; Lowell, 12.24; Cambridge, 10.54; Lynn, 15.06; Lawrence, 12.67; Springfield, 16.48; Somerville, 15.27; New Bedford, 17.02; Holyoke, 16.88; Brockton, 5.79; Haverhill, 7.41; Newton, 5.50; Salem, 14.10; Malden, 14.33; Chelsea, 13.05; Fitchburg, 10.38; Taunton, 18.54; Everett, 3.63; No. Adams, 13.06; Gloucester, 13.94; Quincy, 11.98; Waltham, 14.44; Brookline, ——; Pittsfield, 27.62; Chicopee, 12.36; Medford, 9.92; Northampton, 7.84; Beverly, 17.00; Clinton, ——; Leominster, ——; Newburyport, 25.14; Woburn, 29.09; Hyde Park, 7.34; Adams, 30.27; Attleborough, ——; Marlborough, 15.29; Melrose, 3.82; Westfield, 19.40; Milford, ——; Revere, 12.28; Framingham, ——; Peabody, ——; Gardner, ——; Weymouth, 13.75; Southbridge, ——; Watertown, 4.68; Plymouth, ——.

The total death rate for the week was 14.47, as compared with 15.20 and 15.00 for the previous two weeks.

Cases of Infectious Diseases reported to the State Board of Health during the Week ending Dec. 19, 1903.

(Under the Provisions of section 52 of chapter 75, of the Revised Laws of Massachusetts.)

Scarlet fever, ...	114	Typhoid fever, ...	43
Diphtheria and croup, ...	174	Measles, ...	215
Small-pox, ...	1		

(SIGNED) S. W. ABBOTT, M.D.,
Secretary of the State Board of Health.

The Meteorological Record for the Week, in Boston, was as follows:

DATE.	BAROM-ETER.	THER-MOMETER.			RELATIVE HUMIDITY.			DIRECTION OF WIND.		VELOCITY OF WIND.			STATE OF WEATHER.*			RAIN-FALL.	
Week ending Saturday, Dec. 19, 1903.	MEAN.	MEAN.	MAXIMUM.	MINIMUM.	8 A.M.	8 P.M.	MEAN.	8 A.M.	8 P.M.	8 A.M.	8 P.M.		8 A.M.	8 P.M.		DURATION.	AMOUNT IN INCHES.
Sunday, . . 13,	29.92	40	55	25	85	41	63	S. W.	W.	34	16		R.	C.			0.48
Monday, . . 14,	30.28	23	27	19	40	65	52	W.	W.	26	12		C.	C.			0.00
Tuesday, . . 15,	30.16	20	25	16	73	49	61	W.	S. W.	8	15		C.	C.			0.00
Wednesday, . 16,	29.87	22	28	16	67	66	66	S. W.	S. W.	12	15		C.	C.			0.00
Thursday, . . 17,	29.97	20	30	11	68	71	70	W.	N. W.	14	8		C.	C.			T
Friday, . . 18,	30.34	16	20	11	58	30	44	N. W.	N. W.	14	18		C.	C.			0.00
Saturday, . . 19,	30.49	22	34	11	45	22	34	W.	S. W.	9	9		C.	C.			0.00
Week, . . .	30.15		31	16			56										0.48

* O. = Cloudy; C. = Clear; F. = Fair; G. = Fog; H. = Hazy; S. = Smoky; R. = Rain; T. = Threatening; N. = Snow.

Weekly Bulletin

OF THE

STATE BOARD OF HEALTH

OF

MASSACHUSETTS

FOR THE

Week ending Saturday, Dec. 26, 1903.

An official publication of the State Board of Health of Massachusetts, published weekly at the office of the Board, State House, Boston, Mass.

VOL. XXI. No. 52.

Entered at the post-office at Boston as second-class matter.

This publication contains the returns of deaths made each week to the State Board of Health from cities and towns in Massachusetts having over 10,000 inhabitants in each.

It also contains the reports of cases of infectious diseases returned by the boards of health of cities and towns.

Once in each month the work done under the Food and Drug Acts is also reported in this bulletin.

STATE BOARD OF HEALTH.

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SAMUEL W. ABBOTT, M.D., *Secretary.*

MORTALITY OF MASSACHUSETTS

For the Week ending Dec. 26, 1903.

Deaths reported to the State Board of Health in 39 Cities and Greater Towns.

The number of deaths *reported* each week does not exactly correspond with the number which *occurred* during that week, but the discrepancy is a slight one in most cases. The mortality report is published weekly, and contains the returns from such cities and towns having a population of more than 10,000 inhabitants as have sent to the office of the State Board of Health the death returns of the previous week.

We shall esteem it a great favor if all reporting towns will send us their returns weekly, as heretofore, upon postal cards provided for the purpose. A supply of these cards will be sent to any town clerk or health officer who has charge of such returns and is willing to comply with this request.

CITIES AND TOWNS.	*Population. Estimated for 1903.	Reported Deaths in Each.	Deaths under Five Years.	Deaths from					
				Principal Infectious Diseases.	Acute Lung Diseases.	Phthisis.	Diphtheria and Croup.	Diarrhœal Diseases.	Typhoid Fever.
Boston,	603,163	193	49	43	37	28	2	2	3
Worcester,	132,044	40	14	5	5	..	..	4	1
Fall River,	115,549	42	14	8	12	2	..	5	..
Lowell,	101,959	26	4	4	4	3	1	..	..
Cambridge,	98,639	26	11	7	3	3	2	..	1
Lynn,	72,497	20	3	1	2	..	1	..	..
Lawrence,	69,766	22	7	3	4	3	..	..	..
Springfield,	69,389	23	1	1	6	..	..	..	1
Somerville,	68,110	26	5	5	3	5	..	..	..
New Bedford,	67,198	22	5	7	8	3	1	2	1
Holyoke,	49,286	23	6	5	2	3	..	..	2
Brockton,	44,873	10	1	1	..	1	..	..	..
Haverhill,	38,581	14	1	2	3	1	1	..	..
Newton,	37,794	8	2	..	2	..	..	..	..
Salem,	36,876	15	4	..	..	..	..	..	..
Malden,	36,286	15	7	3	2	..	..	..	..
Chelsea,	35,876	12	4	1	..	..	..	..	..
Fitchburg,	35,069	..	..	..	..	..	..	..	..
Taunton,	33,656	12	..	1	2	1	..	..	..
Everett,	28,620	8	2	1	..	1	..	..	..
North Adams,	27,862	9	2	2	..	1	..	..	1
Gloucester,	26,121	..	..	..	..	..	..	..	..
Quincy,	26,042	3	1	1	..	..	..	1	..
Waltham,	25,198	3	..	1	..	1	..	..	..
Brookline,	22,608	..	..	..	..	..	..	..	..
Pittsfield,	22,589	5	1	..	..	..	..	..	..
Chicopee,	21,031	4	1	..	2	..	..	..	..
Medford,	20,962	3	..	..	..	..	..	..	..
Northampton,	19,883	7	..	..	..	..	..	..	..
Beverly,	15,302	3	1	..	1	..	..	..	..
Clinton,	15,161	9	1	1	..	1	..	..	..
Leominster,	14,806	..	..	..	..	..	..	..	..
Newburyport,	14,478	10	2	1	..	1	..	..	..
Woburn,	14,300	4	1	1	1	1	..	..	..
Hyde Park,	14,175	5	1	2	1	2	..	..	..
Adams,	13,745	8	2	1	..	..	..	1	..
Attleborough,	13,677	..	..	..	..	..	..	..	..
Marlborough,	13,609	5	2	1	..	..	..	..	..
Melrose,	13,600	3	..	..	2	..	..	..	..
Westfield,	13,418	2	1	..	..	..	..	..	..
Milford,	13,129	..	..	..	..	..	..	..	..
Revere,	12,722	2	..	2	..	2	..	..	..
Framingham,	12,534	6	1	1	1	1	..	..	..
Peabody,	12,179	..	..	..	..	..	..	..	..
Gardner,	11,928	..	..	..	..	..	..	..	..
Weymouth,	11,344	2	1	..	..	..	..	..	..
Southbridge,	11,268	..	..	..	..	..	..	..	..
Watertown,	11,077	1	..	1	..	1	..	..	..
Plymouth,	10,730	..	..	..	..	..	..	..	..

RECAPITULATION.

	Population.	Deaths.	Deaths under Five.	Infectious Diseases.	Acute Lung Diseases.	Phthisis.	Diphtheria and Croup.	Diarrhœal Diseases.	Typhoid Fever.
Total of reporting towns,	2,082,717	651	158	113	103	65	8	15	10

Note.—*The population of the Massachusetts cities were estimated upon the rate of growth from 1895 to 1900, since the State had an intermediate census in 1895. The populations of Gloucester, Marlborough and Newburyport were allowed to stand as in 1900, they having suffered a slight decrease during the five-year period.

Deaths from Prevalent Diseases in 39 Cities and Larger Towns of Massachusetts.

One hundred and thirteen deaths were reported from the principal infectious diseases: measles, 2; cerebro-spina meningitis, 1; diphtheria and croup, 8; whooping-cough, 4; typhoid fever, 10; diarrhœal diseases, 15; erysipelas, 1.

No deaths were reported from malarial fever, puerperal fever, small-pox or influenza.

There were 65 deaths from consumption, acute lung diseases, 103, still-births, 44.

From measles: Boston, 2. From cerebro-spinal meningitis: Chelsea, 1. From diphtheria and croup: Boston, 2; Cambridge, 2; Lowell, Lynn, New Bedford and Haverhill, 1 each. From whooping-cough: Boston, 3; Fall River, 1. From erysipelas: Cambridge, 1. From scarlet fever; Boston, 3; Malden, 3; Marlborough, 1.

Deaths under five years of age numbered 158, as compared with 152 for the preceding week.

Deaths from the principal infectious diseases numbered 113, as compared with 92 for the preceding week.

The death rates for the week were: Boston, 16.64; Worcester, 15.75; Fall River, 18.90; Lowell, 13.26; Cambridge, 13.71; Lynn, 14.34; Lawrence, 16.40; Springfield, 17.23; Somerville, 19.85; New Bedford, 17.02; Holyoke, 24.26; Brockton, 11.59; Haverhill, 18.79; Newton, 11.00; Salem, 21.15; Malden, 21.50; Chelsea, 17.40; Fitchburg, ——; Taunton, 18.54; Everett, 14.54; No. Adams, 15.79; Gloucester, ——; Quincy, 5.99; Waltham, 6.19; Brookline, ——; Pittsfield, 11.51; Chicopee, 9.89; Medford, 7.44; Northampton, 18.29; Beverly, 10.20; Clinton, 30.87; Leominster, ——; Newburyport, 35.91; Woburn, 14.54; Hyde Park, 18.34; Adams, 30.27; Attleborough, ——; Marlborough, 19.11; Melrose, 11.47; Westfield, 7.76; Milford, ——; Revere, 8.19; Framingham, 24.96; Peabody, ——; Gardner, ——; Weymouth, 9.17; Southbridge, ——; Watertown, 4.68; Plymouth, ——.

The total death rate for the week was 16.25, as compared with 15.20 and 15.00 for the previous two weeks.

Cases of Infectious Diseases reported to the State Board of Health during the Week ending Dec. 26, 1903.

(Under the Provisions of section 52 of chapter 75, of the Revised Laws of Massachusetts.)

Scarlet fever,	133	Typhoid fever,	41
Diphtheria and croup,	198	Measles,	180
Small-pox,	4		

(SIGNED) S. W. ABBOTT, M.D.,
Secretary of the State Board of Health.

The Meteorological Record for the Week, in Boston, was as follows:

DATE.	BAROM-ETER.	THER-MOMETER.			RELATIVE HUMIDITY.			DIRECTION OF WIND.		VELOCITY OF WIND.			STATE OF WEATHER.*			RAIN-FALL.	
Week ending Saturday, Dec. 26, 1903.	MEAN.	MEAN.	MAXIMUM.	MINIMUM.	8 A.M.	8 P.M.	MEAN.	8 A.M.	8 P.M.	8 A.M.	8 P.M.		8 A.M.	8 P.M.		DURATION.	AMOUNT IN INCHES.
Sunday, 20,	29.66	39	54	24	91	97	94	S. E.	S.	19	30		R.	R.			0.60
Monday, 21,	29.60	42	49	36	62	69	66	W.	S. W.	24	7		C.	C.			0.05
Tuesday, 22,	29.75	31	40	22	87	51	69	S. W.	W.	12	16		O.	C.			0.03
Wednesday, 23,	30.11	28	36	19	63	58	60	W.	S. W.	12	16		C.	C.			0.00
Thursday, 24,	29.94	41	47	35	59	71	65	S. W.	S. W.	7	18		O.	R.			T
Friday, 25,	29.56	39	45	33	73	83	78	S. W.	W.	8	10		O.	F.			T
Saturday, 26,	29.59	18	33	4	89	69	79	N. E.	N. W.	6	16		N.	C.			0.23
Week,	29.74		43	25			73										0.91

* O. = Cloudy; C. = Clear; F. = Fair; G. = Fog; H. = Hazy; S. = Smoky; R. = Rain; T. = Threatening; N. = Snow.

J. HOLZE
BINDER
BOSTON, MA